

# ***SERVICE MANUAL***

M540J/M545J/M550J/M555J

*notebook*





**Notebook Computer**

**M540J/M545J/M550J/M555J**

**Service Manual**

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February 2006

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## About this Manual

This manual is intended for service personnel who have completed sufficient training to undertake the maintenance and inspection of personal computers.

It is organized to allow you to look up basic information for servicing and/or upgrading components of the *M540J/M545J/M550J/M555J* series notebook PC.

The following information is included:

Chapter 1, Introduction, provides general information about the location of system elements and their specifications.  
Chapter 2, Disassembly, provides step-by-step instructions for disassembling parts and subsystems and how to upgrade elements of the system.

Appendix A, Part Lists

Appendix B, Schematic Diagrams

## Preface

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### IMPORTANT SAFETY INSTRUCTIONS

Follow basic safety precautions, including those listed below, to reduce the risk of fire, electric shock and injury to persons when using any electrical equipment:

1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
5. This product is intended to be supplied by a Listed Power Unit (DC Output 20V, 3.25A (**65W**) minimum AC/DC Adapter.

### CAUTION

Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment.

**TO REDUCE THE RISK OF FIRE, USE ONLY NO. 26 AWG OR LARGER,  
TELECOMMUNICATION LINE CORD**

**This Computer's Optical Device is a Laser Class I Product**



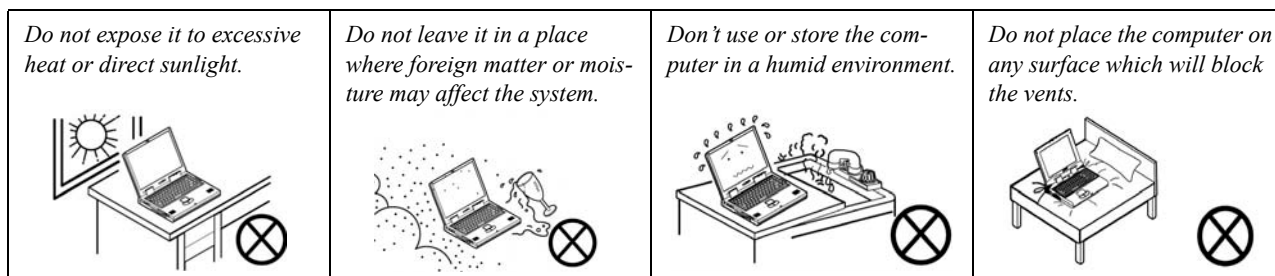
## Instructions for Care and Operation

The notebook computer is quite rugged, but it can be damaged. To prevent this, follow these suggestions:

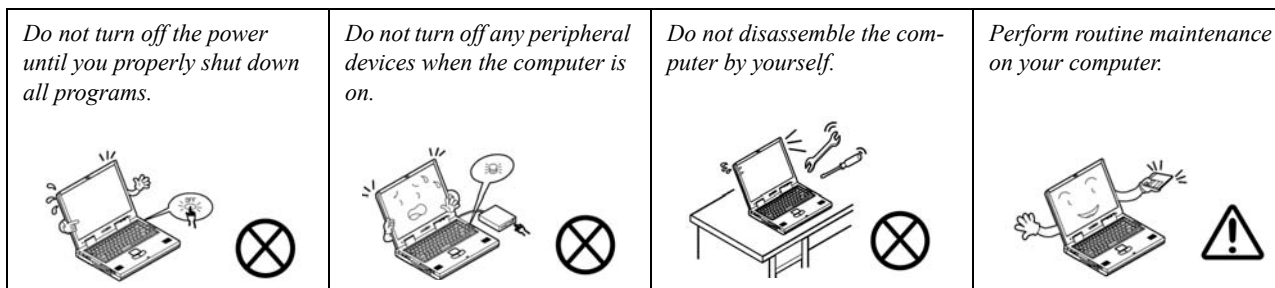
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



2. **Keep it dry, and don't overheat it.** Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.

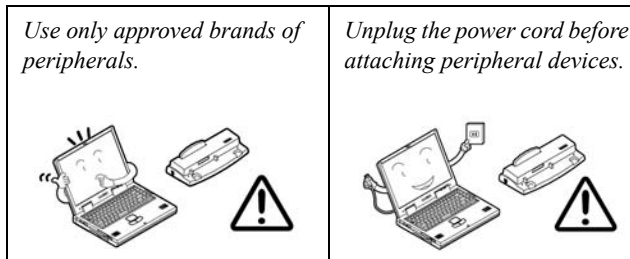


3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



## Preface

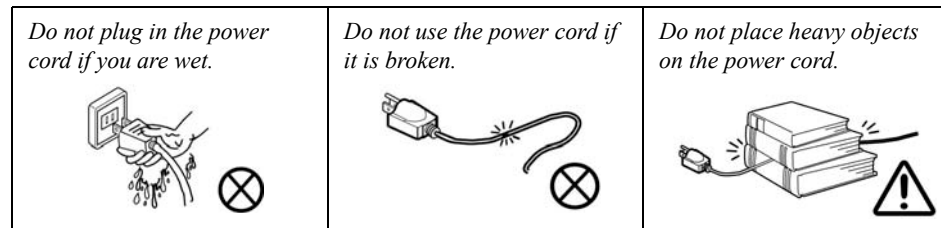
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



## Power Safety

The computer has specific power requirements:

- Only use a power adapter approved for use with this computer.
- Your AC adapter may be designed for international travel but it still requires a steady, uninterrupted power supply. If you are unsure of your local power specifications, consult your service representative or local power company.
- The power adapter may have either a 2-prong or a 3-prong grounded plug. The third prong is an important safety feature; do not defeat its purpose. If you do not have access to a compatible outlet, have a qualified electrician install one.
- When you want to unplug the power cord, be sure to disconnect it by the plug head, not by its wire.
- Make sure the socket and any extension cord(s) you use can support the total current load of all the connected devices.
- Before cleaning the computer, make sure it is disconnected from any external power supplies.



### Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.



## Battery Precautions

- Only use batteries designed for this computer. The wrong battery type may explode, leak or damage the computer.
- Do not continue to use a battery that has been dropped, or that appears damaged (e.g. bent or twisted) in any way. Even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire.
- Recharge the batteries using the notebook's system. Incorrect recharging may make the battery explode.
- Do not try to repair a battery pack. Refer any battery pack repair or replacement to your service representative or qualified service personnel.
- Keep children away from, and promptly dispose of a damaged battery. Always dispose of batteries carefully. Batteries may explode or leak if exposed to fire, or improperly handled or discarded.
- Keep the battery away from metal appliances.
- Affix tape to the battery contacts before disposing of the battery.
- Do not touch the battery contacts with your hands or metal objects.



### Battery Disposal

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

### Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

## Preface

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### Related Documents

You may also need to consult the following manual for additional information:

#### User's Manual on CD

This describes the notebook PC's features and the procedures for operating the computer and its ROM-based setup program. It also describes the installation and operation of the utility programs provided with the notebook PC.

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# Chapter 1: Introduction

## Overview

This manual covers the information you need to service or upgrade the **M540J/M545J/M550J/M555J** series notebook computer. Information about operating the computer (e.g. getting started, and the *Setup* utility) is in the *User's Manual*. Information about drivers (e.g. VGA & audio) is also found in *User's Manual*. That manual is shipped with the computer.

Operating systems (e.g. *DOS*, *Windows 9x*, *Windows NT 4.0*, *Windows 2000*, *Windows XP*, *OS/2 Warp*, *UNIX*, etc.) have their own manuals as do application software (e.g. word processing and database programs). If you have questions about those programs, you should consult those manuals.

The **M540J/M545J/M550J/M555J** series notebook is designed to be upgradeable. See ***“Disassembly” on page 2 - 1*** for a detailed description of the upgrade procedures for each specific component. Please note the warning and safety information indicated by the “” symbol.

The balance of this chapter reviews the computer's technical specifications and features.

## System Specifications

Feature	Specification	
<b>Processor</b>	Mobile AMD Turion™ 64 Processor (35W), 754-pin Micro-PGA Package, 64bit Models <b>ML-30/ ML-34/ ML-37/ ML-40/ ML-44</b>	(μ0.09) 0.09 Micron Silicon-On-Insulator (SOI) Process Technology, 1MB L2 Cache 1.6GHz/ 1.8GHz/ 2.0GHz/ 2.2GHz/ 2.4GHz
	Mobile AMD Turion™ 64 Processor (35W), 754-pin Micro-PGA Package, 64bit Models <b>ML-28/ ML-32/ ML-42</b>	(μ0.09) 0.09 Micron Silicon-On-Insulator (SOI) Process Technology, 512KB L2 Cache 1.6GHz/ 1.8GHz/ 2.4GHz
	Mobile AMD Turion™ 64 Processor (25W), 754-pin Micro-PGA Package, 64bit Models <b>MT-30/ MT-34/ MT-37/ MT-40/ MT-44</b>	(μ0.09) 0.09 Micron Silicon-On-Insulator (SOI) Process Technology, 1MB L2 Cache 1.6GHz/ 1.8GHz/ 2.0GHz/ 2.2GHz/ 2.4GHz
	Mobile AMD Turion™ 64 Processor (25W), 754-pin Micro-PGA Package, 64bit Models <b>MT-28/ MT-32/ MT-42</b>	(μ0.09) 0.09 Micron Silicon-On-Insulator (SOI) Process Technology, 512KB L2 Cache 1.6GHz/ 1.8GHz/ 2.4GHz
	Mobile AMD Sempron™ Processor (25W), 754-pin Micro-PGA Package, 32bit Models <b>2800+/ 3100+</b>	(μ0.13) 0.13 Micron Silicon-On-Insulator (SOI) Process Technology, 256KB L2 Cache 1.6GHz/ 1.8GHz
	Mobile AMD Sempron™ Processor (25W), 754-pin Micro-PGA Package, 32bit Models <b>2600+/ 3000+/ 3300+</b>	(μ0.09) 0.09 Micron Silicon-On-Insulator (SOI) Process Technology, 128KB L2 Cache 1.6GHz/ 1.8GHz/ 2.0GHz
<b>Core Logic</b>	nVIDIA C51MV + MCP51M	
<b>Memory</b>	64-bit Wide DDR Data Channel Two 200 Pin SO-DIMM Sockets Supporting <b>DDR 333 / 400 MHz</b> Memory Expandable up to <b>2GB</b> (256/ 512/ 1024 MB <b>DDR</b> Modules) ( <b>Note:</b> Do Not Use Other Module Types)	
<b>Security</b>	Security (Kensington® Type) Lock Slot	BIOS Password
<b>BIOS</b>	One 4MB Flash ROM	Phoenix™ BIOS, Plug and Play



Feature	Specification	
LCD	<b>M550J:</b> 15.0" XGA (1024*768) Flat Panel TFT OR 15.0" SXGA+ (1400*1050) Flat Panel TFT	<b>M540J:</b> 14.0" WXGA (1280*768) Flat Panel TFT
Video Adapter	nVIDIA C51MV Integrated Graphics Adapter Shared Memory Architecture of up to <b>128MB</b> of Video Memory Supports Analog Monitor Pixel Resolution up to 2048 * 1536 at 75Hz Integrated High Quality 3D Graphics Engine Accelerator Supports Microsoft DirectX 9.0 Vertex Shader 3.0	
Storage	One Changeable 12.7mm(h) Optical Device (CD/DVD) Type Drive (see "Optional" on page 1 - 4 for drive options) Easy Changeable 2.5" 9.5 mm (h) HDD with SATA (Serial) Interface	
Audio	Integrated AZALIA Compliant Interface (HDA) 3D Stereo Enhanced Sound System Sound-Blaster PRO™ Compatible 2 * Built-In Speakers Built-In Microphone  <b>Note:</b> External 7.1 CH Audio Output Support Configurable through Headphone, Microphone, Line-In and S/PDIF Jacks	
Keyboard & Pointing Device	Winkey Keyboard	Built-In TouchPad with Scrolling Function
PCMCIA	One Type-II PCMCIA CardBus PC Card Slot	
Interface	Three USB 2.0 Ports One External Monitor Port One Headphone-Out Jack One Microphone-In Jack One Line-In Jack One Serial Port	One S/PDIF Output Jack (5.1CH) One RJ-11 Jack for Plug & Play Fax/Modem One RJ-45 Jack for 10Mb/ 100Mb/ 1000Mb Fast Ethernet One DC-in Jack
Card Reader	Embedded 4-in-1 Card Reader (MS/ MS PRO/ SD/ MMC)	

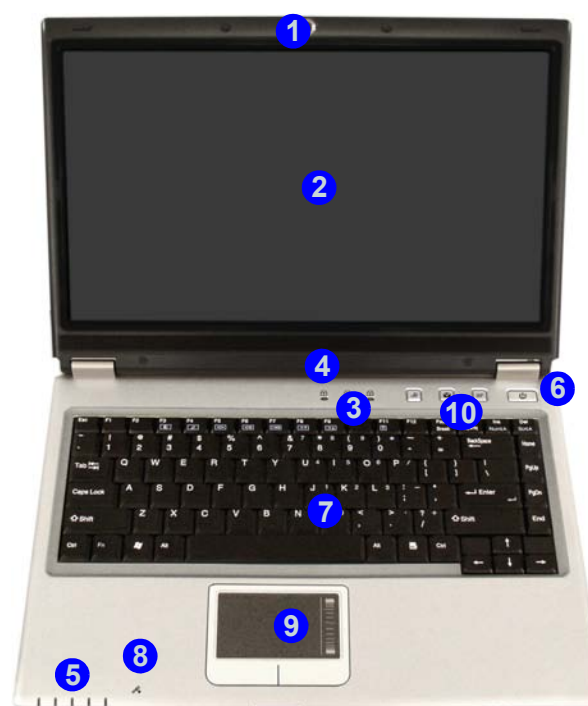
## Introduction

Feature	Specification	
<b>Communication</b>	AZALIA 56K Plug & Play Fax/Modem v.90/92 Compliant 10Mb/ 100Mb/ Fast Ethernet 802.11g Mini-PCI Wireless LAN Module <b>(Factory Option)</b> Bluetooth Module - Version 2.0 <b>(Factory Option)</b> PC Camera with USB Interface	
<b>Power Management</b>	Supports ACPI 2.0 Power Button as Sleep/Resume Key Supports Hibernate Mode Supports Standby	Supports Battery Low Suspend Supports Resume from Modem Ring Supports Wake on LAN
<b>Power</b>	Full Range AC/DC Adapter 20V, 5.25A ( <b>65 Watts</b> ), 100~240V, 47~63Hz  6 Cell Smart Lithium-Ion Battery Pack, 4000mAH (44.4W) 6 Cell Smart Lithium-Ion Battery Pack, 4400mAH (48.8W)	
<b>Environmental Spec</b>	Temperature Operating: 5°C ~ 35°C Non-Operating: -20°C ~ 60°C	Relative Humidity Operating: 20% ~ 80% Non-Operating: 10% ~ 90%
<b>Physical Dimensions &amp; Weight</b>	<b>M550J:</b> 333mm (w) * 276mm (d) * 24-33mm (h) 2.4 kg Without Battery	<b>M540J:</b> 333mm (w) * 243mm (d) * 24-33mm (h) 2.2 kg Without Battery
<b>Optional</b>	<b><u>Optical Drive Module Options:</u></b> DVD/CD-RW Combo Drive Module DVD-Dual Drive Module  Battery Charger Box  Port Replicator (10/100 Base-T Ethernet Port, 4 * USB 2.0 Ports, Serial Port, Parallel Port, External Monitor Port, DC-In Jack) <b>(Note: Port Replicator requires the supplied 90W power adapter)</b>	<b>(Factory Option)</b> PC Camera with USB Interface  <b>(Factory Option)</b> Bluetooth V2.0 Module  <b>(Factory Option)</b> 802.11g Mini-PCI Wireless LAN Module

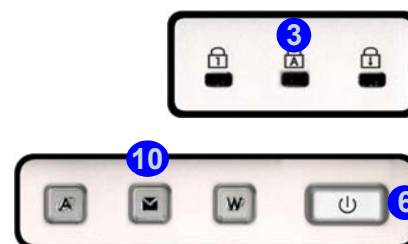
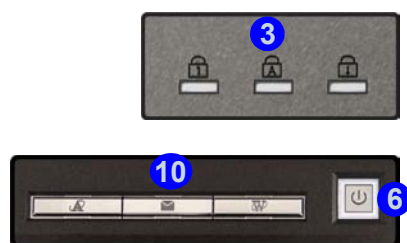
## External Locator - Top View with LCD Panel Open



M550J



M540J



*Figure 1*  
Top View

1. Optional Built-In PC Camera
2. LCD
3. LED Status Indicators
4. Speakers
5. LED Power & Communication Indicators
6. Power Button
7. Keyboard
8. Built-In Microphone
9. TouchPad and Buttons
10. AP-Key Buttons

## Introduction

*Figure 2*

### Front Views

1. LED Power & Communication Indicators
2. LCD Latch (M550J Only)
3. 4-in-1 Card Reader (M540J Only)

## External Locator - Front & Right side Views



M550J



M540J

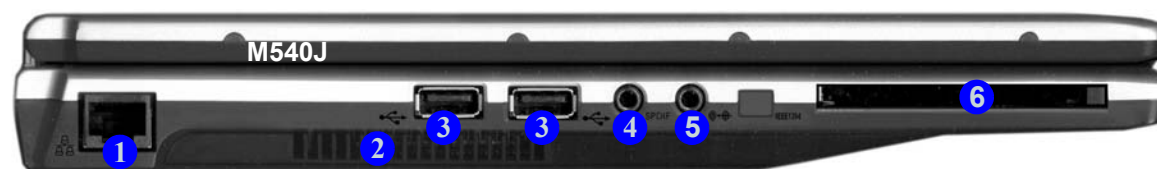
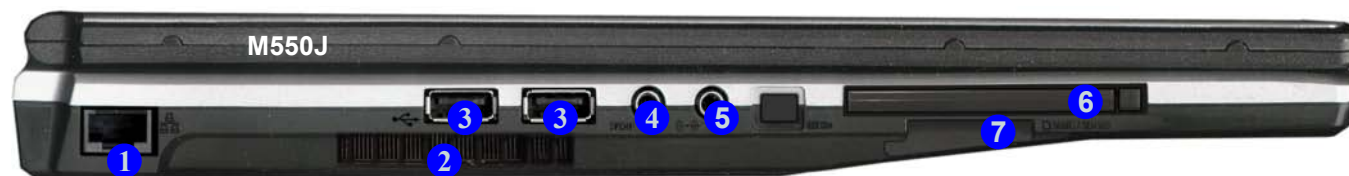
*Figure 3*

### Right Side Views

1. Headphone-Out Jack
2. Microphone-In Jack
3. USB 2.0 Port
4. RJ-11 Modem Jack
5. Optical Device Drive Bay
6. DC-In Jack



## External Locator - Left Side & Rear View



*Figure 4*  
**Left Side View**

1. RJ-45 LAN Jack
2. Vent/Fan Intake
3. 2 \* USB 2.0 Ports
4. S/PDIF-Out Jack
5. Line-In Jack
6. PC Card Slot
7. 4-in-1 Card Reader (**M550J** Only)

*Figure 5*  
**Rear View**

1. External Monitor Port
2. Serial Port
3. Security Lock Slot
4. Battery

## Introduction

### External Locator - Bottom View

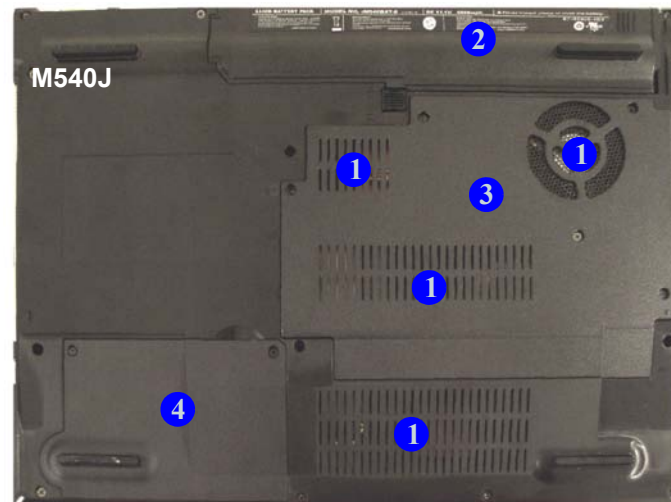
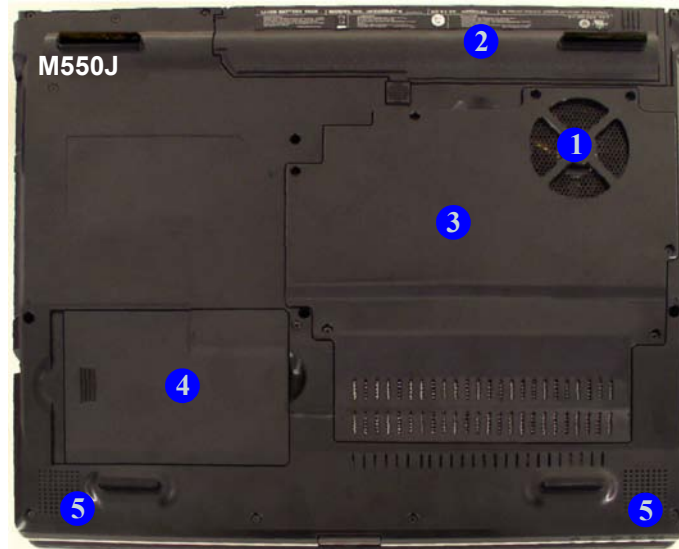
*Figure 6*  
**Bottom View**

1. Vent/Fan Intake
2. Battery
3. Memory (RAM)/  
WLAN Module/  
CPU Cover
4. Hard Disk Cover
5. Speakers  
(M550J Only)



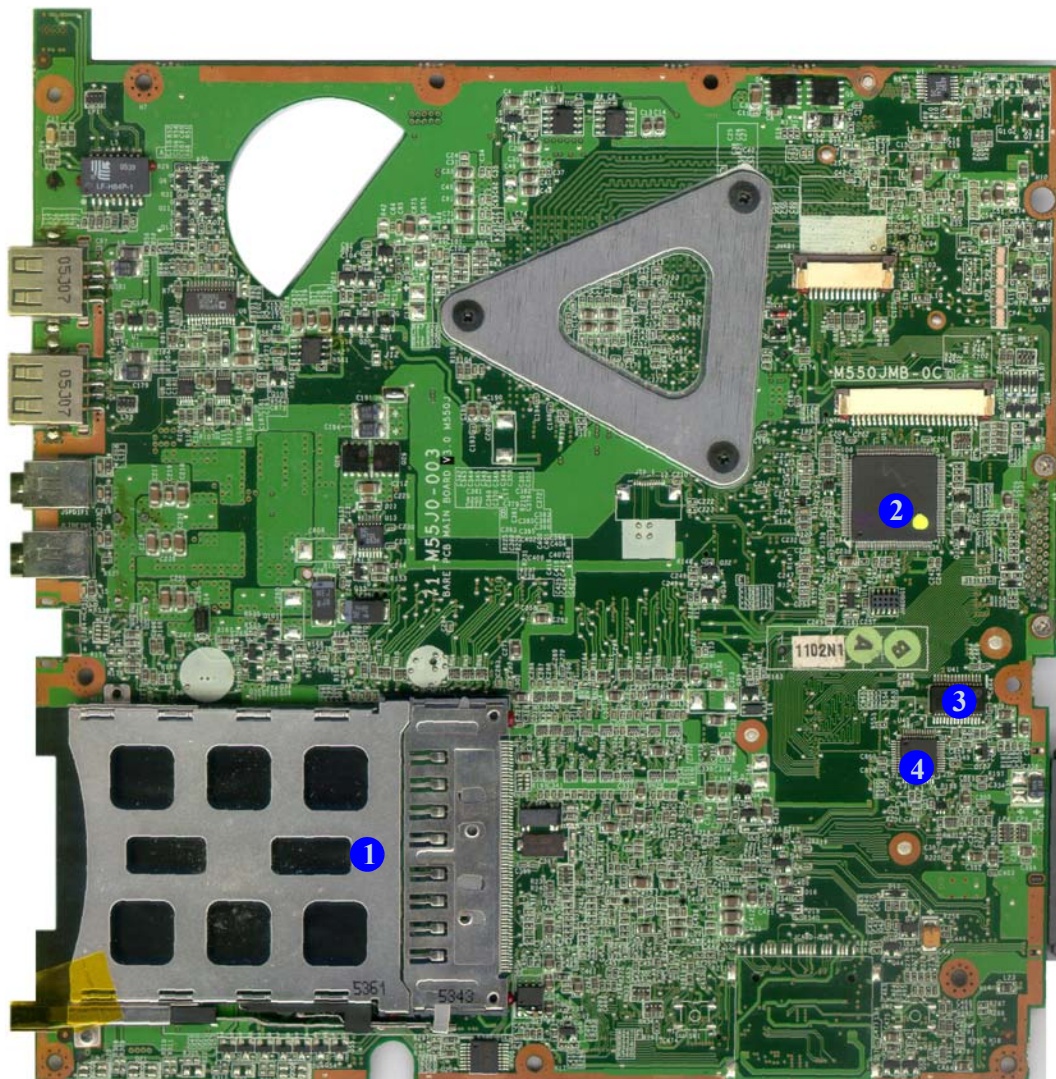
#### Overheating

To prevent your computer from overheating make sure nothing blocks the vent/fan intakes while the computer is in use.





## M540J Mainboard Overview - Top (Key Parts)



*Figure 7*  
**Mainboard Top  
Key Parts**

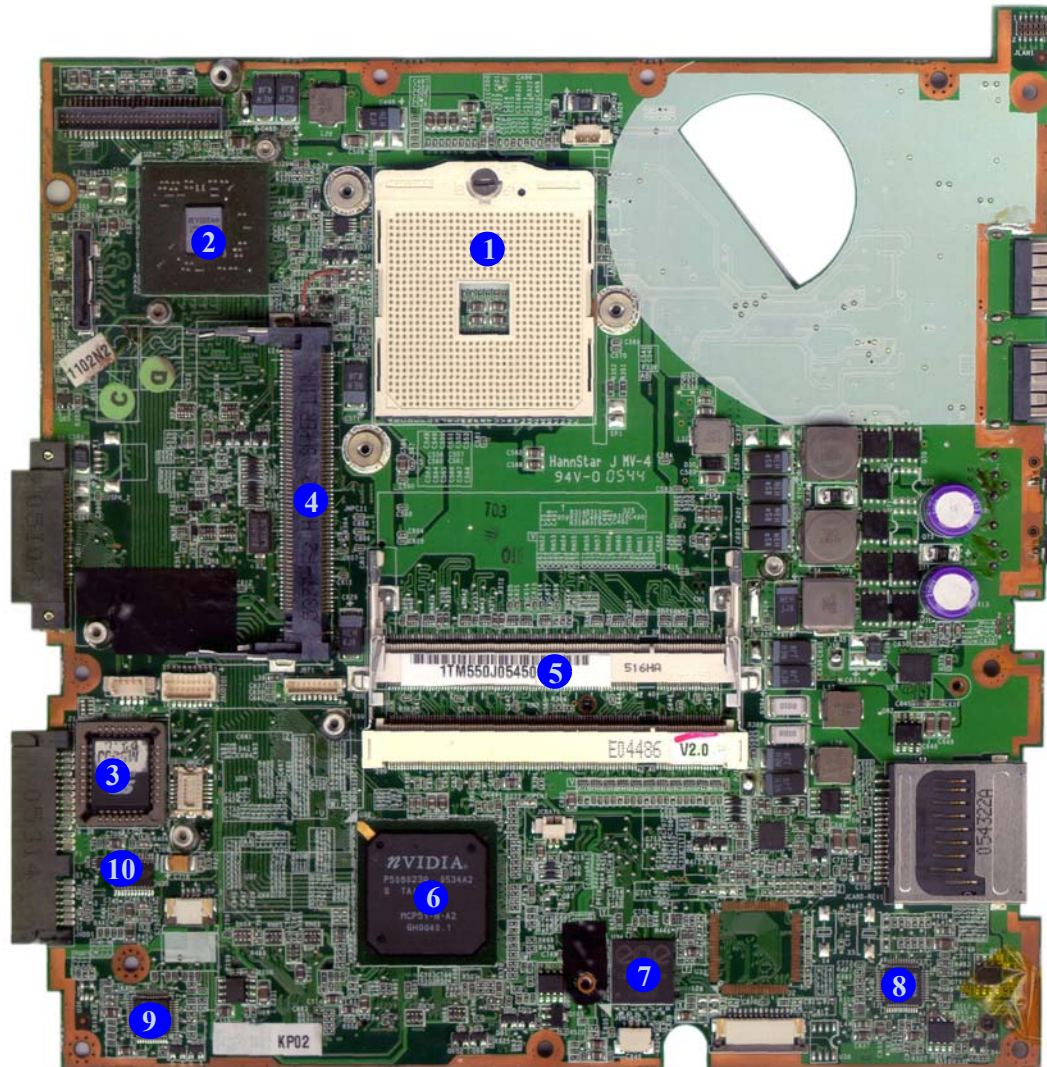
1. PC Card Assembly
2. H8/2111
3. RS-232 Transceivers
4. PC87381 Super I/O

## Introduction

*Figure 8*  
**Mainboard Bottom  
Key Parts**

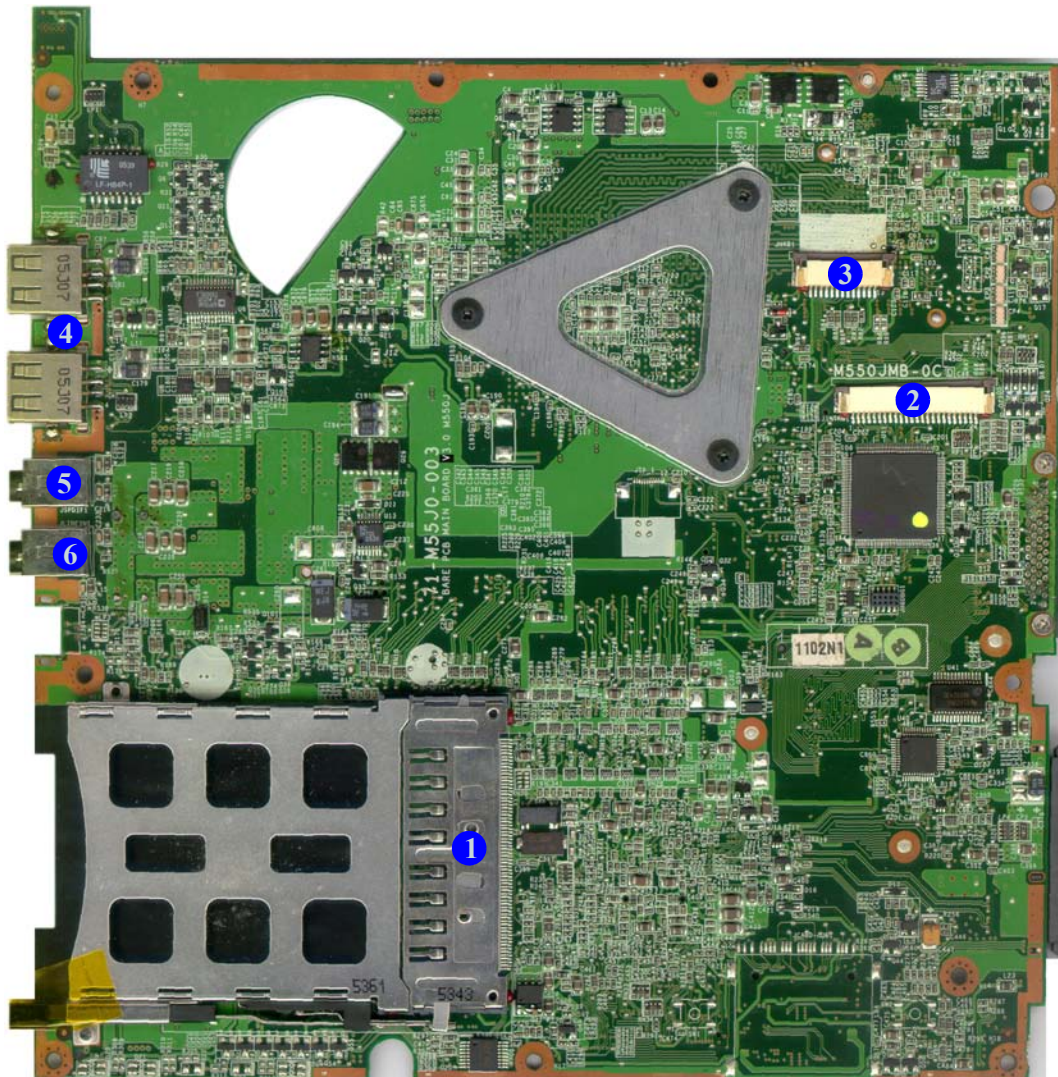
1. CPU Socket (no CPU installed)
2. Northbridge-C51MV
3. Flash BIOS ROM
4. Mini-PCI (Wireless Lan Module) Connector
5. Memory Slots DDR2 So-DIMM
6. Southbridge-MCP51M
7. ENE PCMCIA & Card Card Control
8. RTL820KL 10/100M Fast Ethernet Phyceiver
9. ALC880 Audio Codec
10. Audio Amp.

## M540J Mainboard Overview - Bottom (Key Parts)





## M540J Mainboard Overview - Top (Connectors)



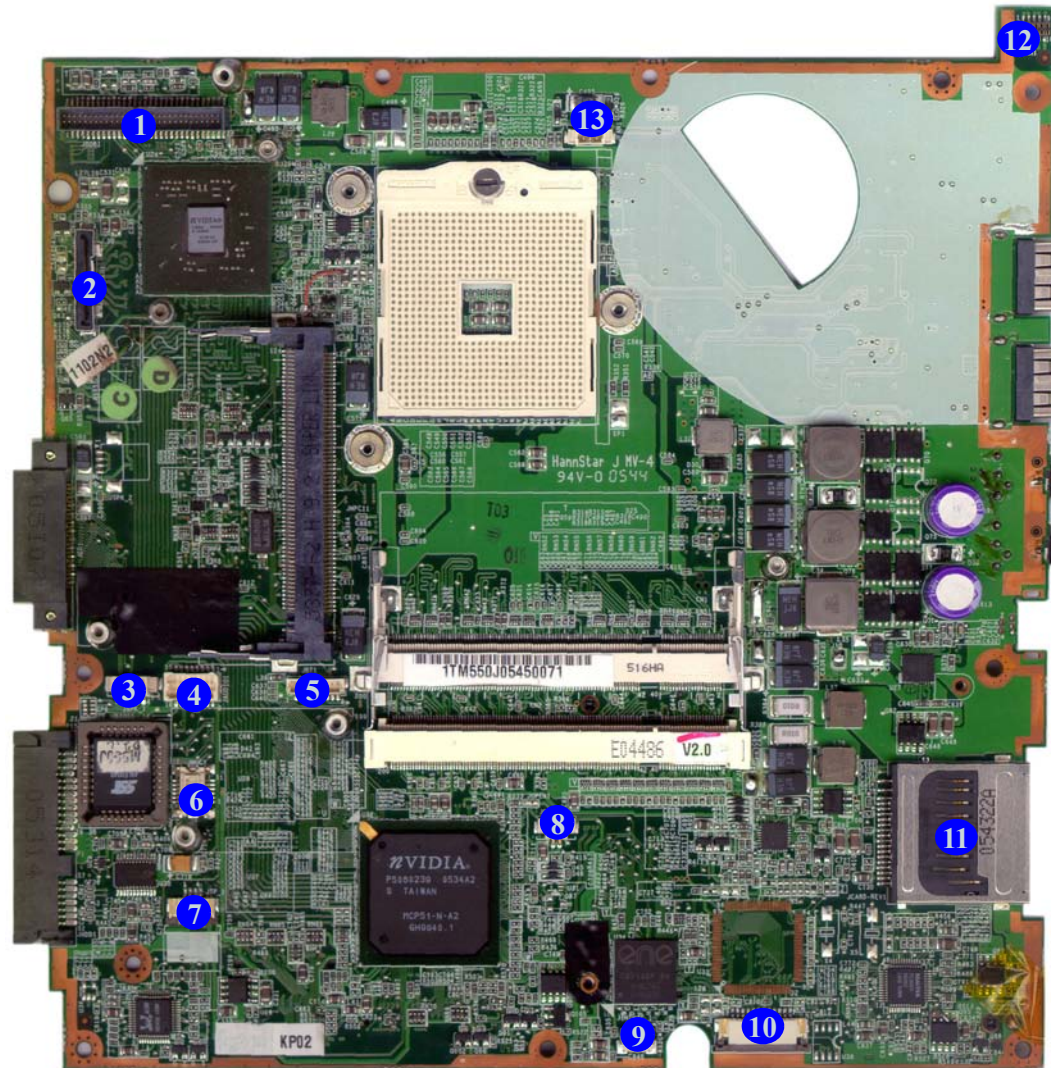
*Figure 9*  
**Mainboard Top  
Connectors**

1. PCMCIA Socket
2. Keyboard
3. Hot-key board Connector
4. USB Port
5. S/PDIF-Out Jack
6. Line-In Jack

## Introduction

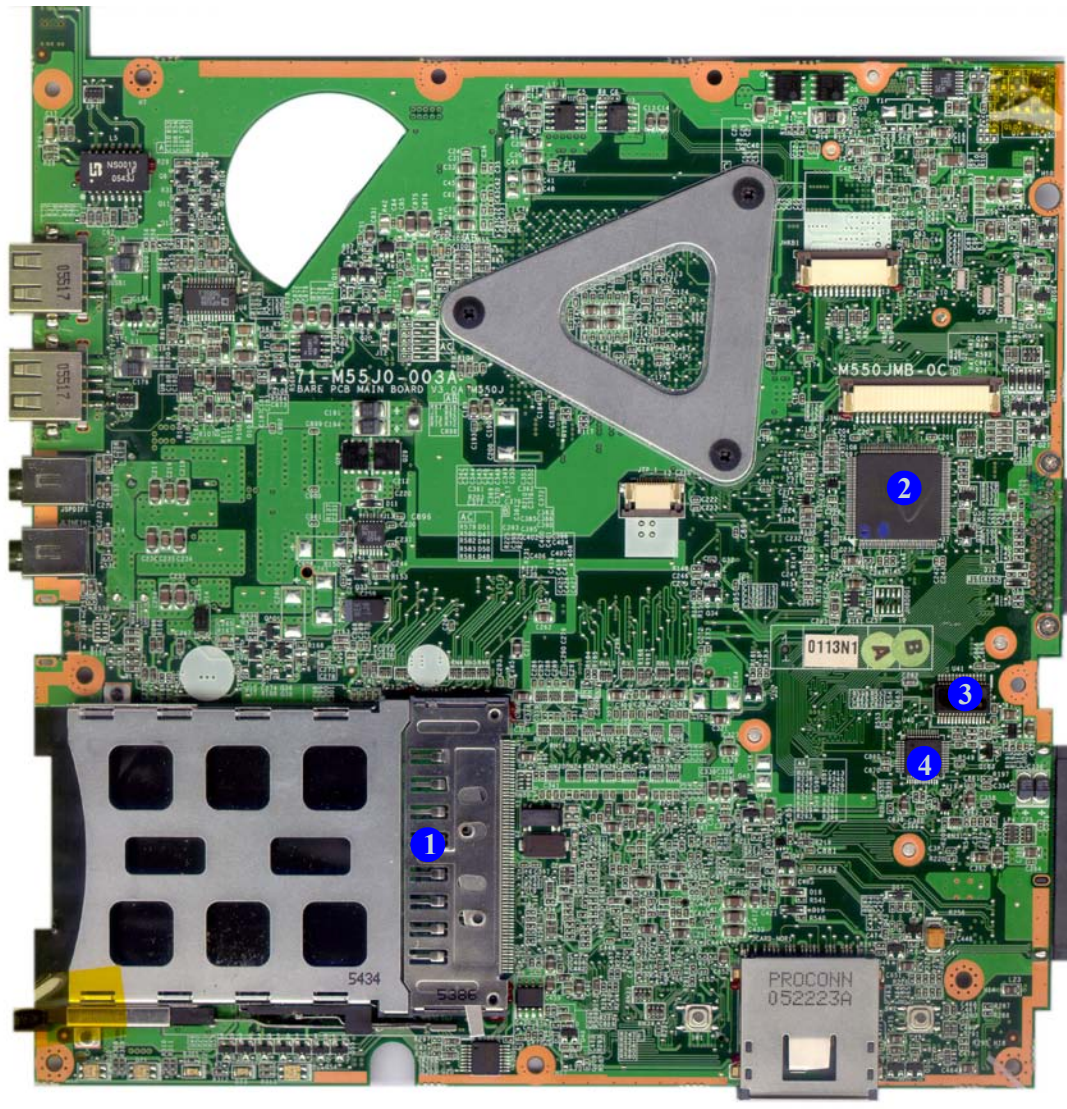
*Figure 10*  
**Mainboard Bottom  
Connectors**

1. D/D Board Connector
2. LCD Connector
3. Speaker Connector
4. Audio Board Connector
5. BT Connector
6. Modem Module Connector
7. TouchPad Connector
8. CMOS Bat. Connector
9. Microphone Cable Connector
10. LED Board Connector
11. Card Reader Socket
12. LAN Board Connector
13. Fan CPU Cable Connector





## M550J Mainboard Overview - Top (Key Parts)



*Figure 11*  
**Mainboard Top  
Key Parts**

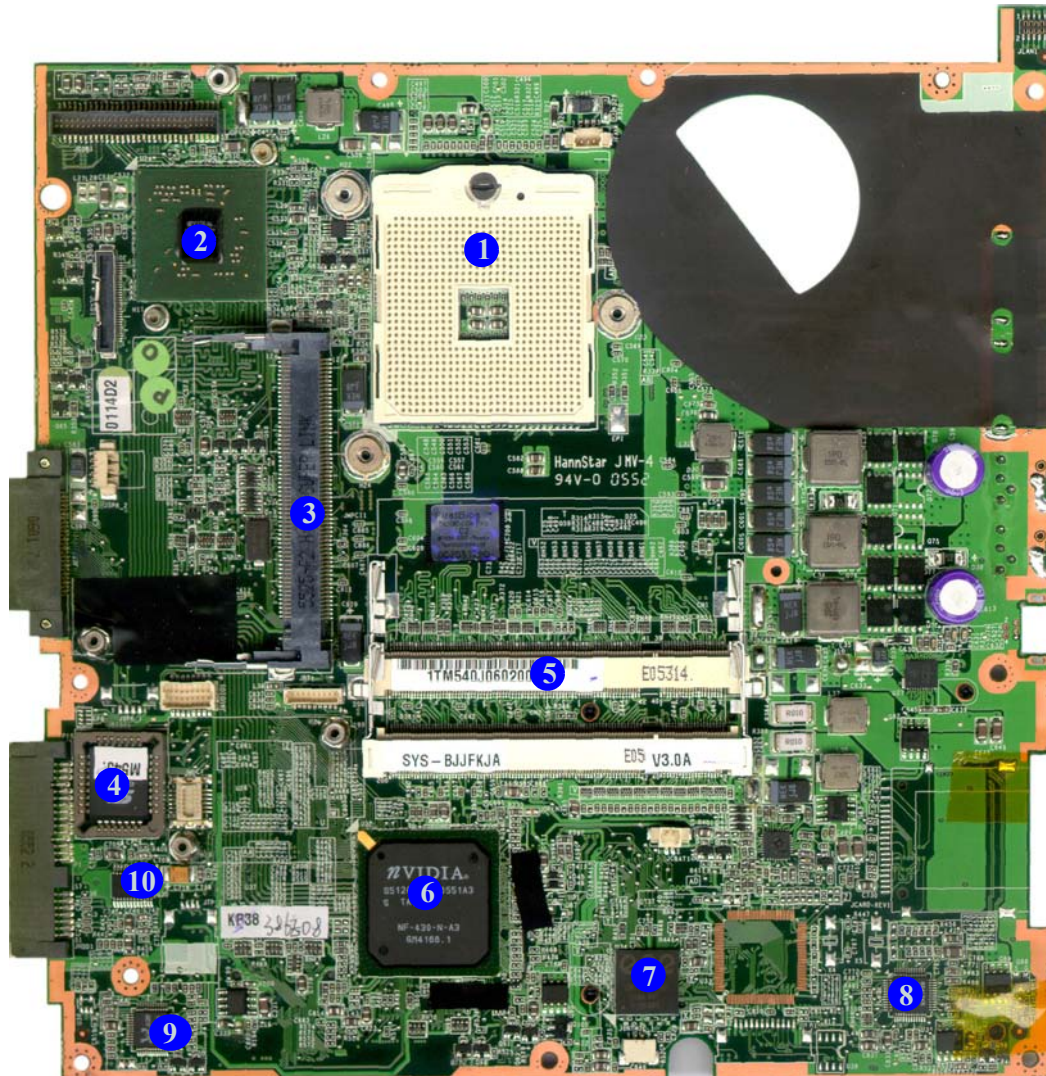
1. PC Card Assembly
2. H8/2111
3. RS-232 Transceivers
4. PC87381 Super I/O

## Introduction

*Figure 12*  
**Mainboard Bottom  
Key Parts**

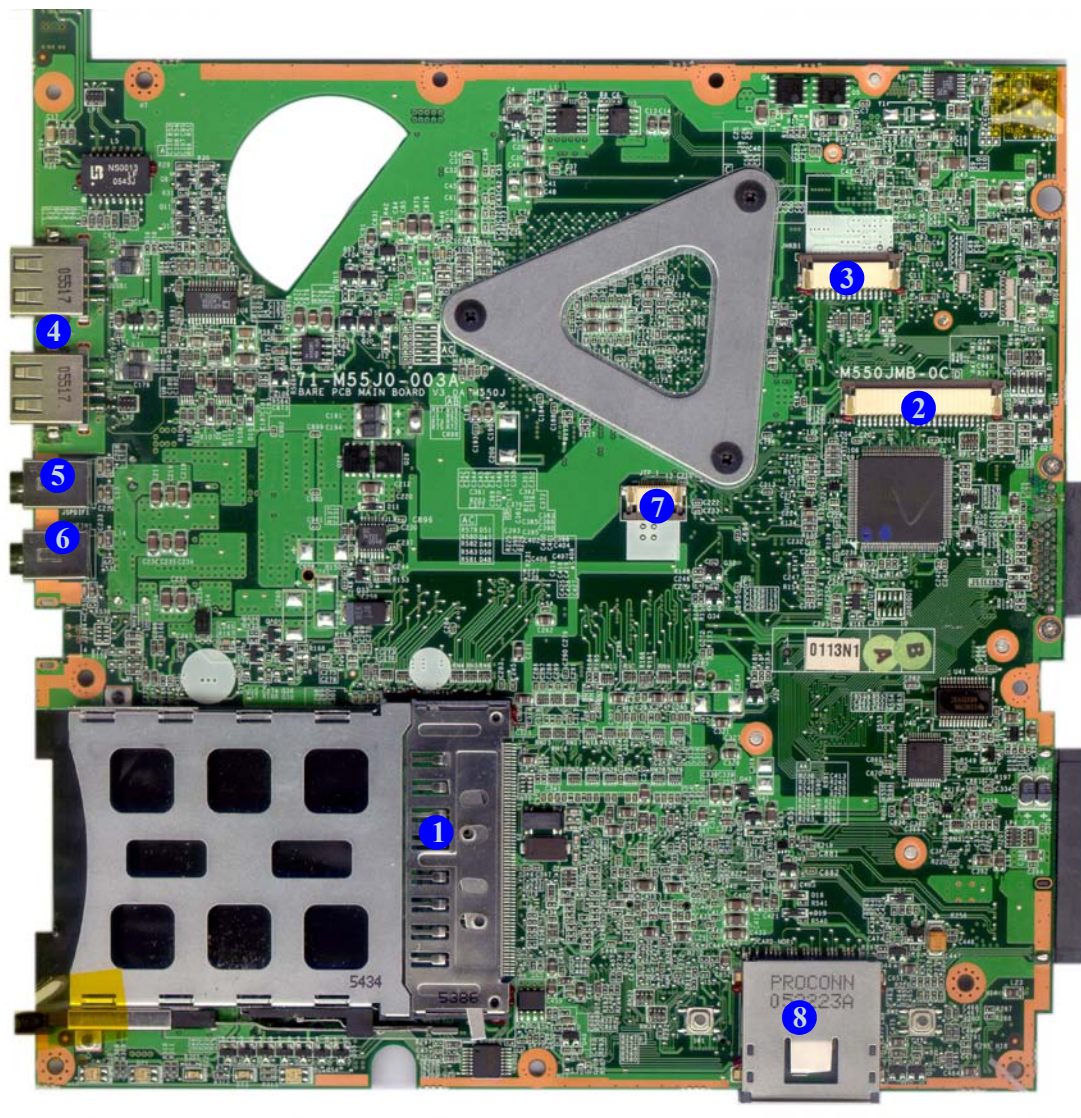
1. CPU Socket (no CPU installed)
2. Northbridge-C51MV
3. Mini-PCI (Wireless Lan Module) Connector
4. Flash BIOS ROM
5. Memory Slots DDR2 So-DIMM
6. Southbridge-MCP51M
7. ENE PCMCIA & Card Card Control
8. RTL8201CL 10/100M Fast Ethernet Phyceiver
9. ALC880 Audio Codec
10. Audio Amp.

## M550J Mainboard Overview - Bottom (Key Parts)





## M550J Mainboard Overview - Top (Connectors)



*Figure 13*  
**Mainboard Top  
Connectors**

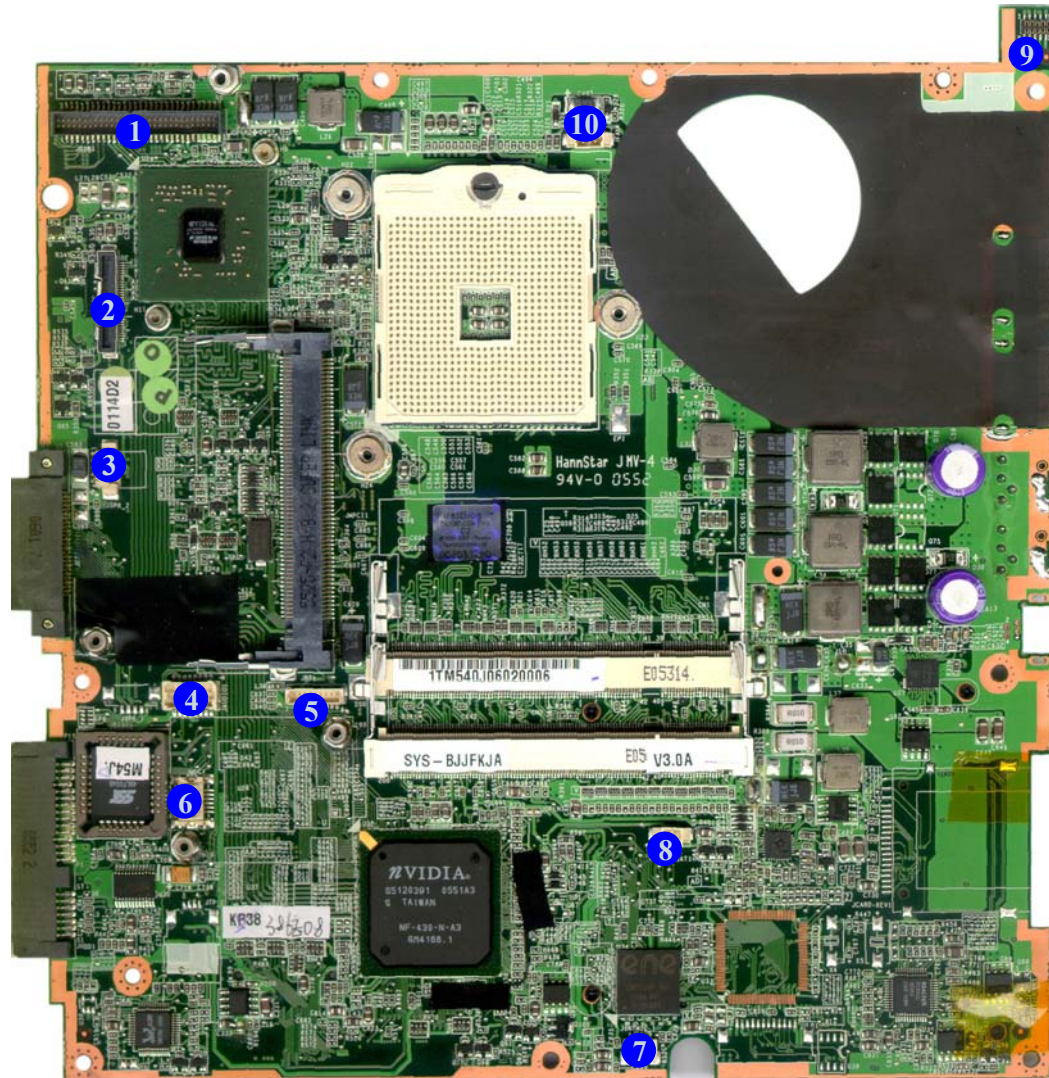
1. PCMCIA Socket
2. Keyboard
3. Hot-key board Connector
4. USB Port
5. S/PDIF-Out Jack
6. Line-In Jack
7. TouchPad Connector
8. Card Reader Socket

## Introduction

*Figure 14*  
**Mainboard Bottom  
Connectors**

1. D/D Board Connector
2. LCD Connector
3. Speaker Cable Connector
4. Audio Board Connector
5. BT Connector
6. Modem Module Connector
7. Microphone Cable Connector
8. CMOS Bat. Connector
9. LAN Board Connector
10. Fan CPU Cable Connector

## M550J Mainboard Overview - Bottom (Connectors)






# Chapter 2: Disassembly



## Overview

This chapter provides step-by-step instructions for disassembling the *M540J/M545J/M550J/M555J* series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

We suggest you completely review any procedure before you take the computer apart.

Procedures such as upgrading/replacing the RAM, CD device and hard disk are included in the User's Manual but are repeated here for your convenience.

To make the disassembly process easier each section may have a box in the page margin. Information contained under the figure # will give a synopsis of the sequence of procedures involved in the disassembly procedure. A box with a  lists the relevant parts you will have after the disassembly process is complete. **Note:** The parts listed will be for the disassembly procedure listed ONLY, and not any previous disassembly step(s) required. Refer to the part list for the previous disassembly procedure. The amount of screws you should be left with will be listed here also.

A box with a  will also provide any possible helpful information. A box with a  contains warnings.

An example of these types of boxes are shown in the sidebar.

  
Information  
Warning

## Disassembly

---

**NOTE:** All disassembly procedures assume that the system is turned **OFF**, and disconnected from any power supply (the battery is removed too).

### Maintenance Tools

The following tools are recommended when working on the notebook PC:

- M3 Philips-head screwdriver
- M2.5 Philips-head screwdriver (magnetized)
- M2 Philips-head screwdriver
- Small flat-head screwdriver
- Pair of needle-nose pliers
- Anti-static wrist-strap

### Connections

Connections within the computer are one of four types:

Locking collar sockets for ribbon connectors	To release these connectors, use a small flat-head screwdriver to gently pry the locking collar away from its base. When replacing the connection, make sure the connector is oriented in the same way. The pin1 side is usually not indicated.
Pressure sockets for multi-wire connectors	To release this connector type, grasp it at its head and gently rock it from side to side as you pull it out. Do not pull on the wires themselves. When replacing the connection, do not try to force it. The socket only fits one way.
Pressure sockets for ribbon connectors	To release these connectors, use a small pair of needle-nose pliers to gently lift the connector away from its socket. When replacing the connection, make sure the connector is oriented in the same way. The pin1 side is usually not indicated.
Board-to-board or multi-pin sockets	To separate the boards, gently rock them from side to side as you pull them apart. If the connection is very tight, use a small flat-head screwdriver - use just enough force to start.

## Maintenance Precautions

The following precautions are a reminder. To avoid personal injury or damage to the computer while performing a removal and/or replacement job, take the following precautions:

1. **Don't drop it.** Perform your repairs and/or upgrades on a stable surface. If the computer falls, the case and other components could be damaged.
2. **Don't overheat it.** Note the proximity of any heating elements. Keep the computer out of direct sunlight.
3. **Avoid interference.** Note the proximity of any high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage components and/or data. You should also monitor the position of magnetized tools (i.e. screwdrivers).
4. **Keep it dry.** This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.
5. **Be careful with power.** Avoid accidental shocks, discharges or explosions.
  - Before removing or servicing any part from the computer, turn the computer off and detach any power supplies.
  - When you want to unplug the power cord or any cable/wire, be sure to disconnect it by the plug head. Do not pull on the wire.
6. **Peripherals** – Turn off and detach any peripherals.
7. **Beware of static discharge.** ICs, such as the CPU and main support chips, are vulnerable to static electricity. Before handling any part in the computer, discharge any static electricity inside the computer. When handling a printed circuit board, do not use gloves or other materials which allow static electricity buildup. We suggest that you use an anti-static wrist strap instead.
8. **Beware of corrosion.** As you perform your job, avoid touching any connector leads. Even the cleanest hands produce oils which can attract corrosive elements.
9. **Keep your work environment clean.** Tobacco smoke, dust or other air-born particulate matter is often attracted to charged surfaces, reducing performance.
10. **Keep track of the components.** When removing or replacing any part, be careful not to leave small parts, such as screws, loose inside the computer.

## Cleaning

Do not apply cleaner directly to the computer, use a soft clean cloth.

Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.



### Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

## Disassembly Steps

The following table lists the disassembly steps, and on which page to find the related information. **PLEASE PERFORM THE DISASSEMBLY STEPS IN THE ORDER INDICATED.**

### To remove the Battery:

1. Remove the battery *page 2 - 5*

### To remove the HDD:

1. Remove the battery *page 2 - 5*
2. Remove the HDD *page 2 - 6*

### To remove the System Memory:

1. Remove the battery *page 2 - 5*
2. Remove the system memory *page 2 - 8*

### To remove the Optical Device:

1. Remove the battery *page 2 - 5*
2. Remove the Optical device *page 2 - 10*

### To remove the Processor:

1. Remove the battery *page 2 - 5*
2. Remove the processor *page 2 - 11*

### To remove the Keyboard:

1. Remove the battery *page 2 - 5*
2. Remove the keyboard *page 2 - 13*

### To remove the Wireless LAN Module:

1. Remove the battery *page 2 - 5*
2. Remove the wireless LAN *page 2 - 14*

### To remove the Modem & Bluetooth Modules:

1. Remove the battery *page 2 - 5*
2. Remove the HDD *page 2 - 6*
3. Remove the Optical device *page 2 - 10*
4. Remove the CPU heat sink *page 2 - 11*
5. Remove the keyboard *page 2 - 13*
6. Remove the modem and bluetooth *page 2 - 15*



## Removing the Battery

1. Turn the computer **off**, and turn it over.
2. Locate the battery bay at point **1** (**Figure 1a**).
3. Slide the latch **1** in the direction of the arrow, and hold it in place.
4. Slide the battery in the direction of the arrow **2**
5. Lift the battery out in the direction of the arrow **3**, then lift the battery **4** out.

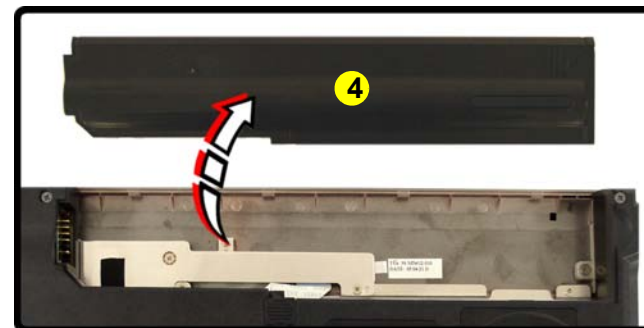
a.



b.



c.



*Figure 1*  
**Battery Removal**

- a. Locate the battery release latch.
- b. Slide the latch and hold in place, and slide the battery in the direction of the arrow.
- c. Lift the battery out.



4. Battery

## Disassembly

*Figure 2*  
**HDD Assembly  
Removal**

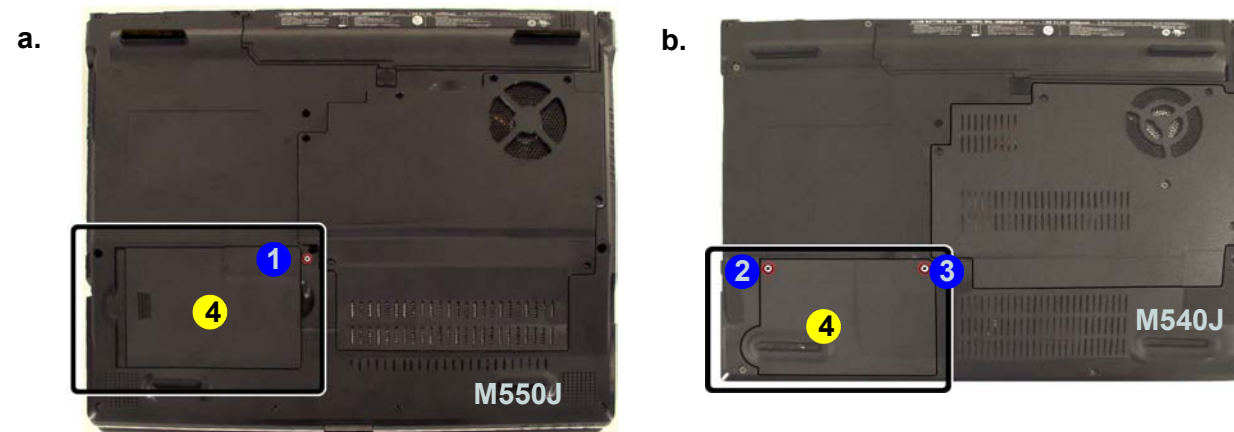
- Locate the HDD bay cover.
- Remove the screw(s).

## Removing the Hard Disk Drive

The hard disk drive can be taken out to accommodate other 2.5" serial (SATA) hard disk drives with a height of 9.5mm (h). Follow your operating system's installation instructions, and install all necessary drivers and utilities (as outlined in **Chapter 4 of the User's Manual**) when setting up a new hard disk.

### Hard Disk Upgrade Process

- Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
- Locate the hard disk bay cover **4** and remove screw **1** **M550J**, OR screws **2** - **3** **M540J**.



#### 4. HDD Bay Cover

- 1 Screw (M550J)
- 2 Screws (M540J)



#### HDD System Warning

New HDD's are blank. Before you begin make sure:

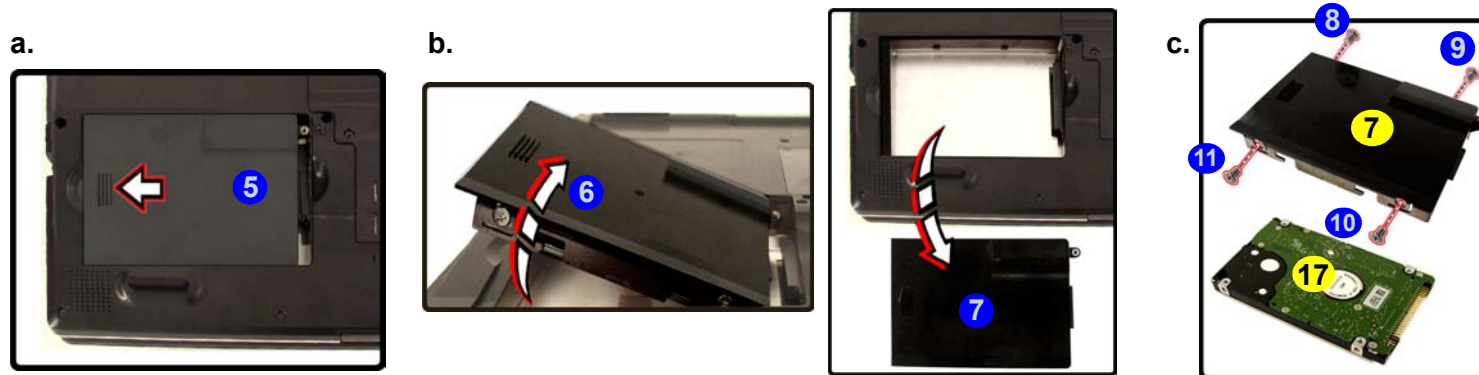
You have backed up any data you want to keep from your old HDD.

You have all the CD-ROMs and FDDs required to install your operating system and programs.

If you have access to the internet, download the latest application and hardware driver updates for the operating system you plan to install. Copy these to a removable medium.

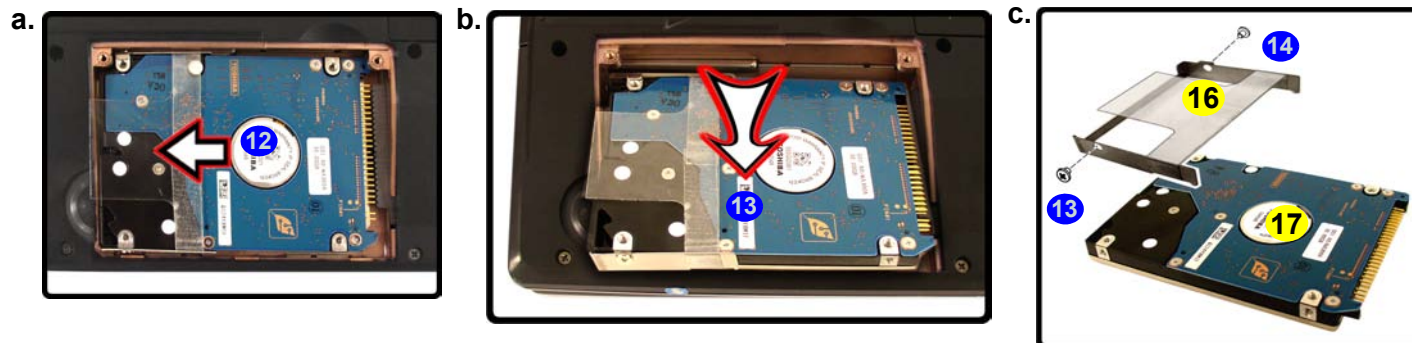
For **M550J** computers:

3. Slide the hard disk and cover assembly in the direction of arrow ⑤.
4. Lift the hard disk and cover assembly up in the direction of arrow ⑥.
5. Remove the hard disk and cover assembly ⑦.
6. Remove screws ⑧ - ⑪ to release the hard disk from the assembly cover, and reverse the process to install any new hard disk.



For **M540J** computers:

7. Pull the tab to slide the hard disk and case assembly in the direction of arrow ⑫.
8. Lift the hard disk and case assembly out of the bay in the direction of arrow ⑬.
9. Remove screws ⑭ - ⑮ to release the hard disk ⑰ from the case ⑱, and reverse the process to install any new hard disk.



⑫. HDD Case (M550J)  
⑬. HDD Case (M540J)  
⑭. HDD

- 4 Screws (M550J)
- 2 Screws (M540J)

*Figure 4*  
**RAM Module Removal**

- Remove the screws.
- Remove the cover.

## Removing the System Memory (RAM)

The computer has two memory sockets for 200 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting **DDR 333/4000MHz**. The main memory can be expanded up to 2GB. The SO-DIMM modules supported are 256MB, 512MB and 1024MB **DDR** Modules. The total memory size is automatically detected by the POST routine once you turn on your computer.

### Memory Upgrade Process

- Turn **off** the computer, remove the battery ([page 2 - 5](#)).
- Locate the bay cover **1**, and remove screws **2** - **8** (for **M550J**) OR screws **2** - **6** (for **M540J**).
- Remove the bay cover **1**.

a.



b.



#### Contact Warning

Be careful not to touch the metal pins on the module's connecting edge. Even the cleanest hands have oils which can attract particles, and degrade the module's performance.

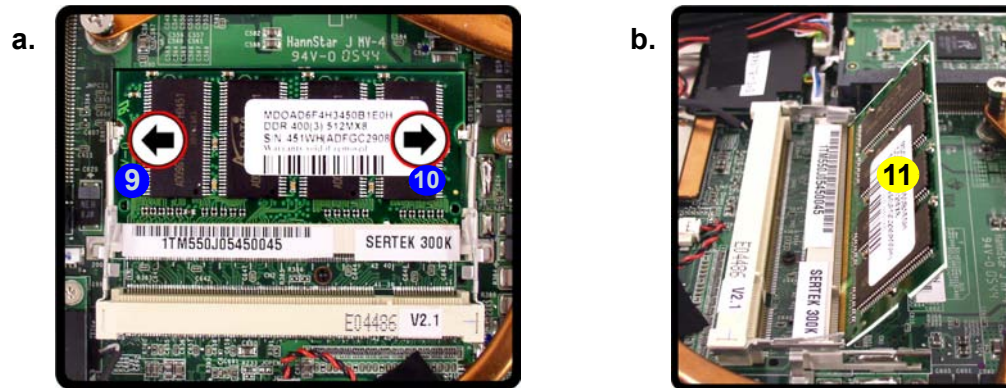


#### 1. Bay Cover

- 7 Screws (M550J)
- 5 Screws (M540J)

*Figure 5*  
**Memory Removal Sequence**

- a. Pull the release latch(es).
- b. Remove the module(s).



5. The RAM module(s) **11** will pop-up (*Figure 5b*), and you can then remove it.
6. Pull the latches to release the second module if necessary.
7. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
8. The module's pin alignment will allow it to only fit one way. Make sure the module is seated as far into the slot as it will go. DO NOT FORCE the module; it should fit without much pressure.
9. Press the module down towards the mainboard until the slot levers click into place to secure the module.
10. Replace the memory socket cover and the screws (see [page 2 - 8](#)).
11. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.



11. RAM Module

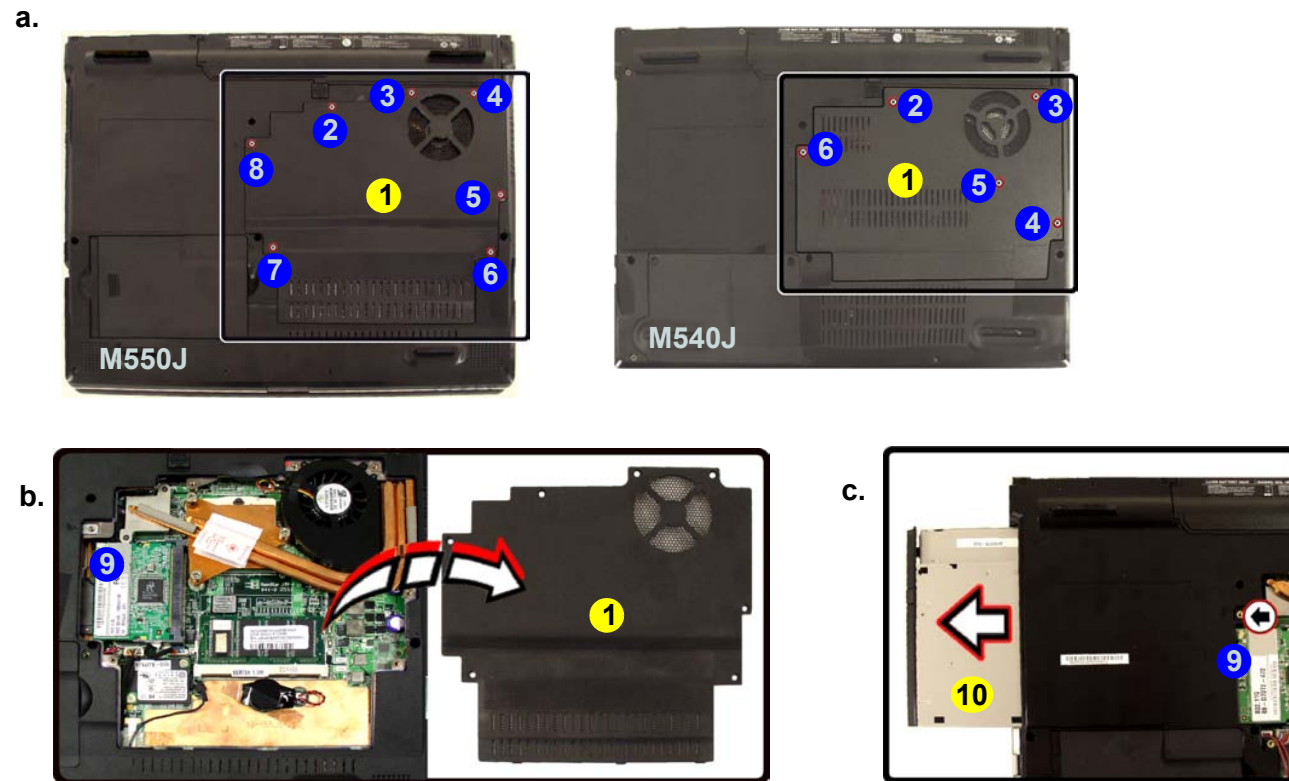


## Disassembly

*Figure 6*  
**Optical Device  
Removal**

### Removing the Optical (CD/DVD) Device

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#))
  2. Locate the bay cover **1**, and remove screws **2** - **8** (for **M550J**) OR screws **2** - **6** (for **M540J**).
  3. Remove the bay cover **1**.
  4. Use a screwdriver to carefully push out the optical device **10** at point **9**.
  5. Insert the new device and carefully slide it into the computer (the device only fits one way. **DO NOT FORCE IT**; The screw holes should line up).
  6. Restart the computer to allow it to automatically detect the new device.
- a. Remove the screws.  
b. Remove the cover.  
c. Push the optical device out off the computer at point 9.

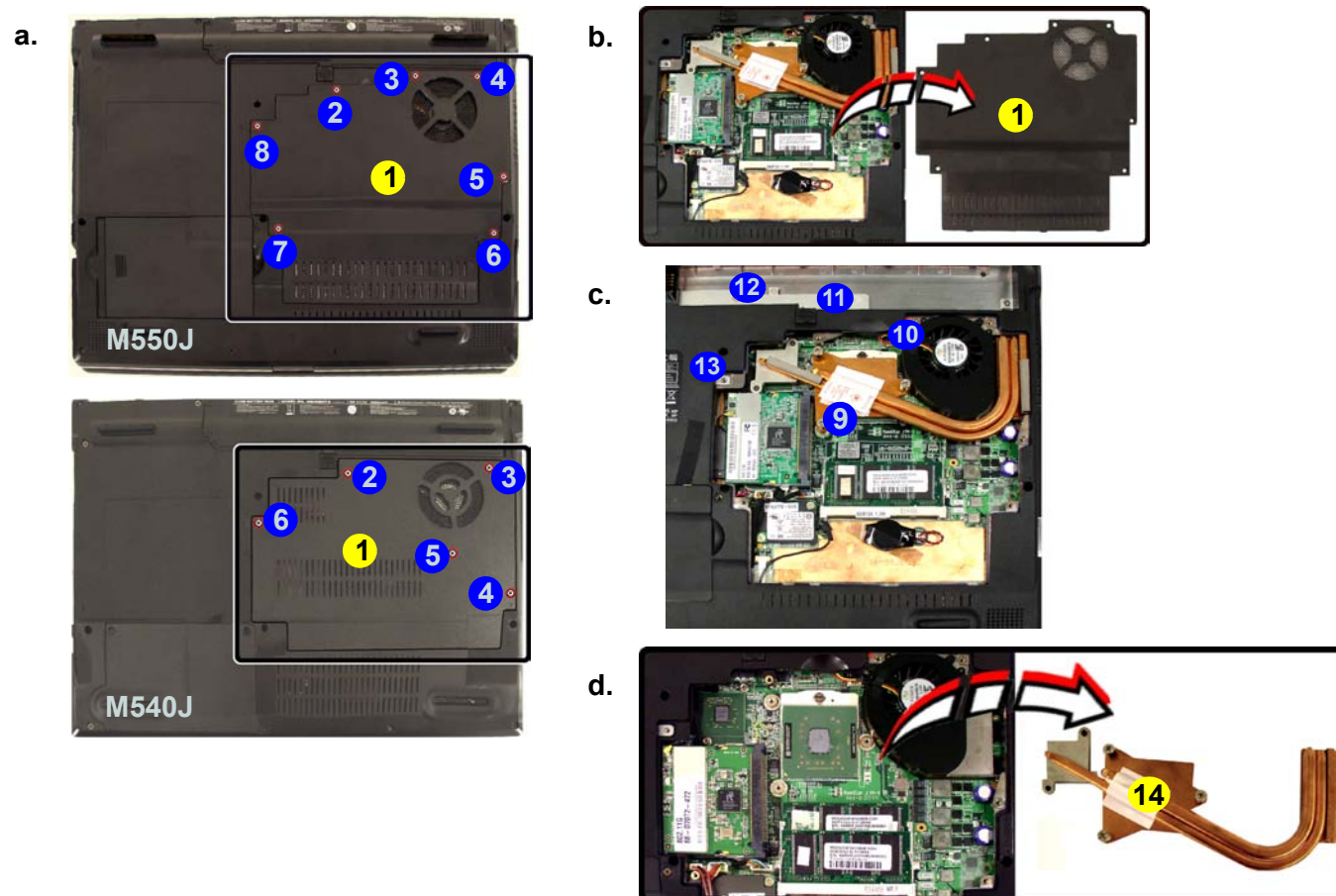


1. Bay Cover  
10. Optical Device

- 7 Screws (M550J)
- 5 Screws (M540J)

## Removing the Processor

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Locate the bay cover **1**, and remove screws **2** - **8** (for **M550J**) OR screws **2** - **6** (for **M540J**).
3. Carefully lift up the bay cover **1** off the computer.
4. Remove screws **9** - **13** ([Figure 7c](#)) from the heat sink in the order indicated.
5. Carefully lift up the heat sink **14** ([Figure 7c](#)) off the computer.




*Figure 7*  
**Processor Removal**

- a. Remove the screws.
- b. Carefully lift the cover off the computer.
- c. Remove the screws in the order indicated.
- d. Remove the heat sink.



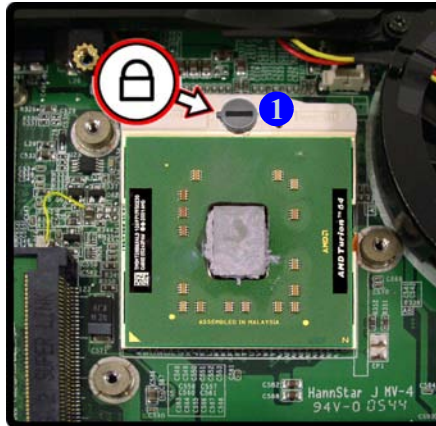
## Disassembly

6. Turn the release latch **1** towards the unlock symbol , to release the CPU (*Figure 8a*).
7. Carefully (it may be hot) lift the CPU **2** up out of the socket (*Figure 8b*).
8. Reverse the process to install a new CPU.
9. When re-inserting the CPU, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!).

*Figure 8*  
**Processor Removal**  
(cont'd)

- a. Turn the release latch to unlock the CPU.
- b. Lift the CPU out of the socket.

a.

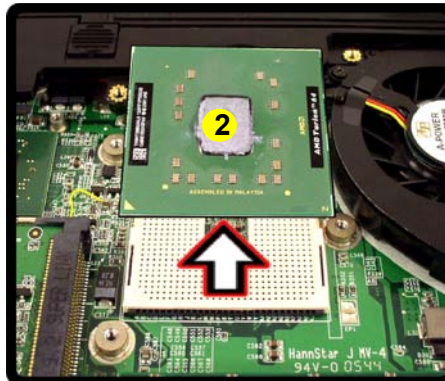


Unlock



Lock

b.



### Caution

The heat sink, and CPU area in general, contains parts which are subject to high temperatures. Allow the area time to cool before removing these parts.



2. CPU



## Removing the Keyboard

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Press the **three** keyboard latches at the top of the keyboard to elevate the keyboard from its normal position (you may need to use a small screwdriver to do this).
3. Carefully lift the keyboard **4** up, being careful not to bend the keyboard ribbon cable **5** ([Figure 9b](#)).
4. Disconnect the keyboard ribbon cable **5** from the locking collar socket **6**.

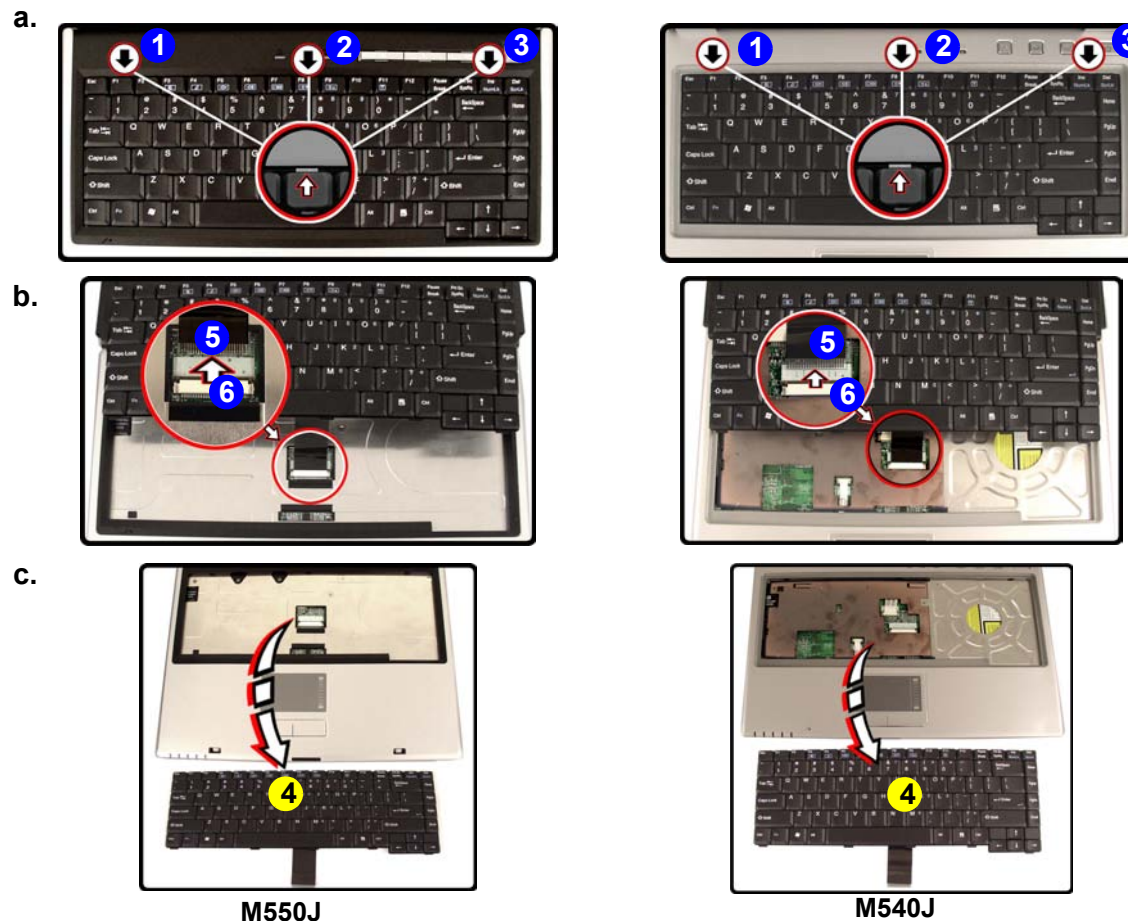


Figure 9

### Keyboard Removal

- a. Press the three latches to release the keyboard.
- b. Lift the keyboard up and disconnect the cable from the locking collar.
- c. Remove the keyboard.



### Re-Inserting the Keyboard

When re-inserting the keyboard firstly align the **five** keyboard tabs at the bottom of the keyboard with the slots in the case.



4. Keyboard

## Disassembly

*Figure 10*  
**Wireless LAN  
Module Removal**

- a. Disconnect the cable and pull the release latches.
- b. The WLAN module will pop up.
- c. Remove the wireless LAN module.

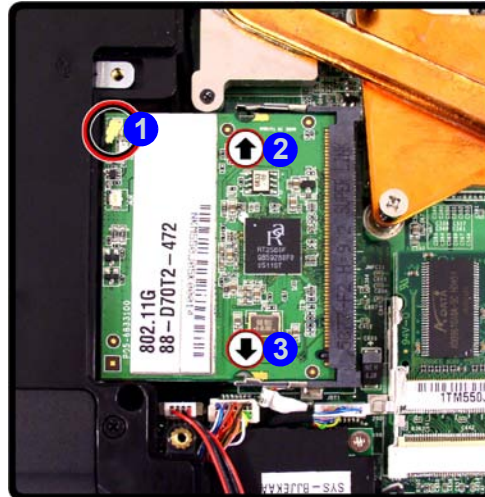
Note: Make sure you re-connect the antenna cable to the "Main" socket (*Figure 10a*).

4. Wireless LAN Module.

## Removing the Wireless LAN Module

1. Turn **off** the computer, remove the battery (*page 2 - 5*) and the bay cover.
2. Carefully disconnect cable **①**, then gently pull the two release latches (**②** - **③**) on the sides of the module socket.
3. The Wireless LAN Module **④** (*Figure 10b*) will pop-up, and you can remove it.

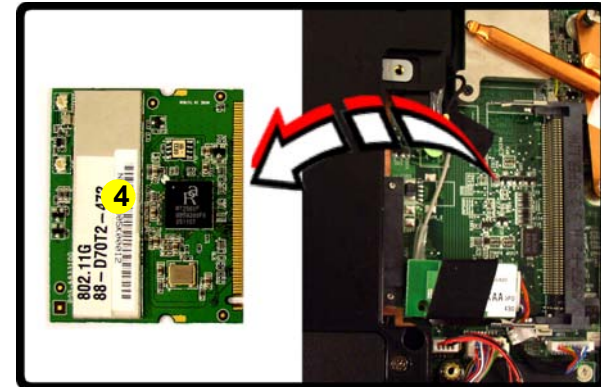
a.



b.



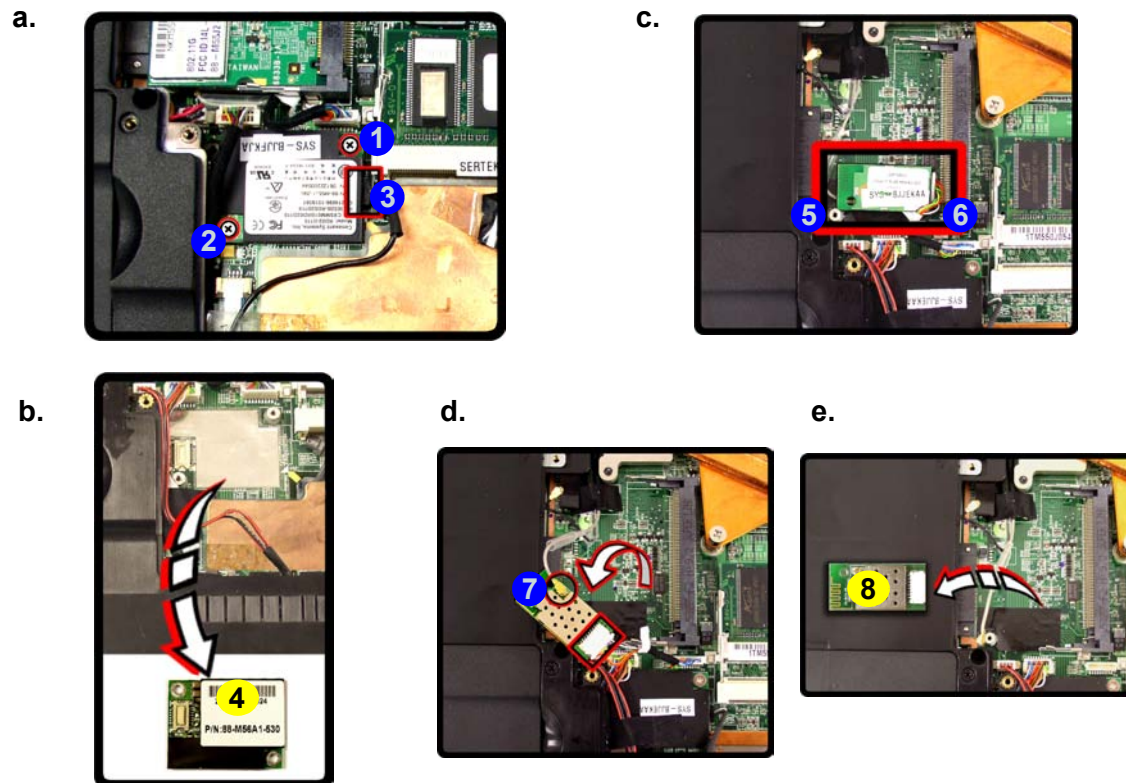
c.



## Removing the Modem and Bluetooth Modules

For M550J computers:

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), the optical device ([page 2 - 10](#)), the hard disk drive ([page 2 - 6](#)), bay cover ([page 2 - 8](#)) the CPU heat sink ([page 2 - 11](#)) and the keyboard ([page 2 - 13](#)).
2. Remove screws **1** - **2** ([Figure 11a](#)), disconnect cable **3** and carefully separate the modem from the connector.
3. Lift the modem **4** ([Figure 11b](#)) up and off the computer.
4. Remove screw **5** ([Figure 11c](#)), carefully separate the Bluetooth module from the connector **6** and disconnect cable **7**.
5. Lift the Bluetooth module **8** ([Figure 11e](#)) up and off the computer.



*Figure 11*  
**Modem and  
Bluetooth Removal  
for M550J**

- a. Remove the screws and disconnect the cable from the modem.
- b. Lift the modem out.
- c. Remove the screw and disconnect the cables.
- d. Disconnect the antenna cable from the Bluetooth module.
- e. Lift the Bluetooth module out.

- 4. Modem Module
- 8. Bluetooth Module

- 3 Screws (M550J)



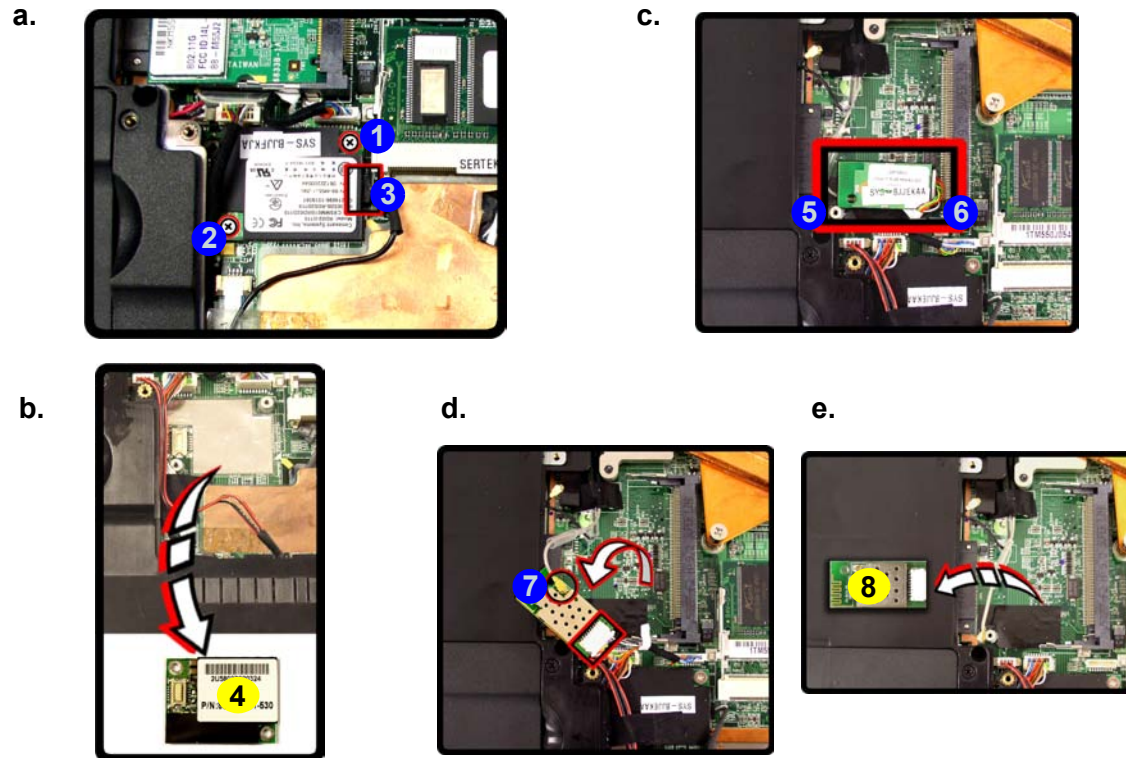
## Disassembly

*Figure 12*  
**Modem and Bluetooth Removal for M540J**

- Remove the screws and disconnect the cable from the modem.
- Lift the modem out.
- Remove the screw and disconnect the cable.
- Disconnect the antenna cable from the Bluetooth module.
- Lift the Bluetooth module out.

### For M540J computers:

- Turn **off** the computer, remove the battery ([page 2 - 5](#)), the hard disk drive ([page 2 - 6](#)), the bay cover ([page 2 - 8](#)), the optical device ([page 2 - 10](#)) and the Wireless module ([page 2 - 14](#)).
- Remove screws **1** - **2** ([Figure 12a](#)), disconnect cable **3** and carefully separate the modem from the connector.
- Lift the modem **4** ([Figure 12b](#)) up and off the computer.
- Remove screw **5** ([Figure 12c](#)), carefully separate the Bluetooth Module from the connector **6** and disconnect cable **7**.
- Lift the Bluetooth Module **8** ([Figure 12e](#)) up and off the computer.



4. Modem Module  
8. Bluetooth Module

- 3 Screws (M540J)

# Appendix A:Part Lists

This appendix breaks down the *M540J/M545J/M550J/M555J* series notebook's construction into a series of illustrations. The component part numbers are indicated in the tables opposite the drawings.

**Note:** This section indicates the *manufacturer's* part numbers. Your organization may use a different system, so be sure to cross-check any relevant documentation.

**Note:** Some assemblies may have parts in common (especially screws). However, the part lists DO NOT indicate the total number of duplicated parts used.

**Note:** Be sure to check any update notices. The parts shown in these illustrations are appropriate for the system at the time of publication. Over the product life, some parts may be improved or re-configured, resulting in *new* part numbers.

## Part Lists

### Part List Illustration Location

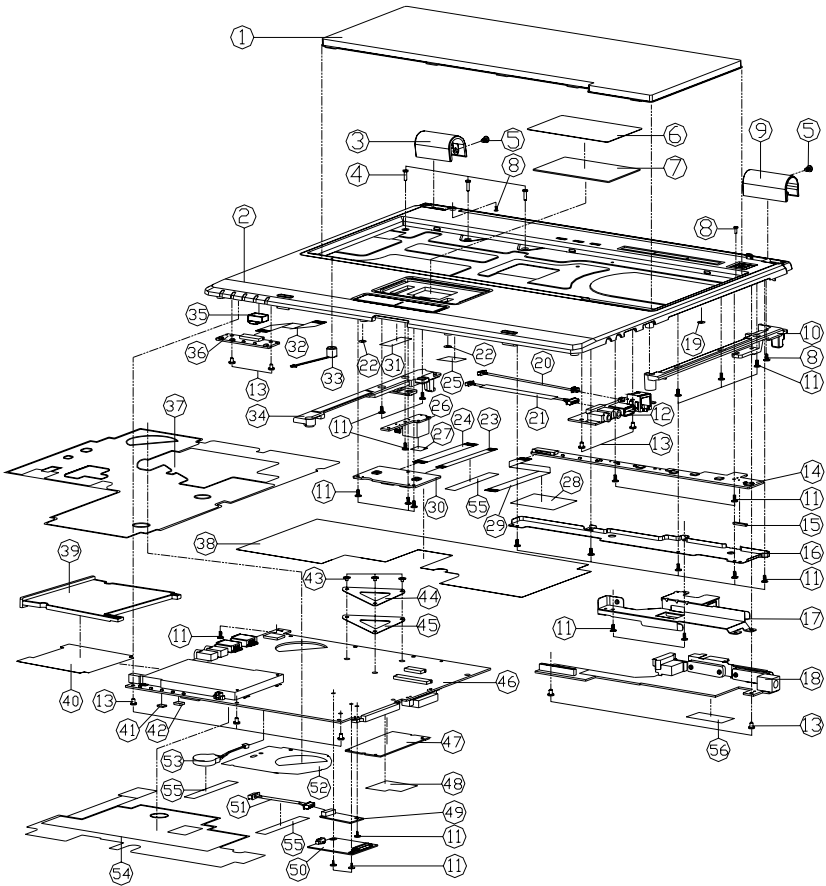
The following table indicates where to find the appropriate part list illustration.

*Table A - 1*

**Part List Illustration  
Location**

Part	M55XJ/M54XJ
Top - (M550J)	<i>page A - 3</i>
Top - (M555J)	<i>page A - 4</i>
Bottom - (M550J/M555J)	<i>page A - 5</i>
LCD - (M550J)	<i>page A - 6</i>
LCD - (M555J)	<i>page A - 7</i>
DVD-RW Drive - (M550J)	<i>page A - 8</i>
Top - (M540J)	<i>page A - 9</i>
Top - (M545J)	<i>page A - 10</i>
Bottom - (M540J/M545J)	<i>page A - 11</i>
LCD - (M540J)	<i>page A - 12</i>
LCD - (M545J)	<i>page A - 13</i>
Combo Drive - (M540J)	<i>page A - 14</i>

Top (M550J)



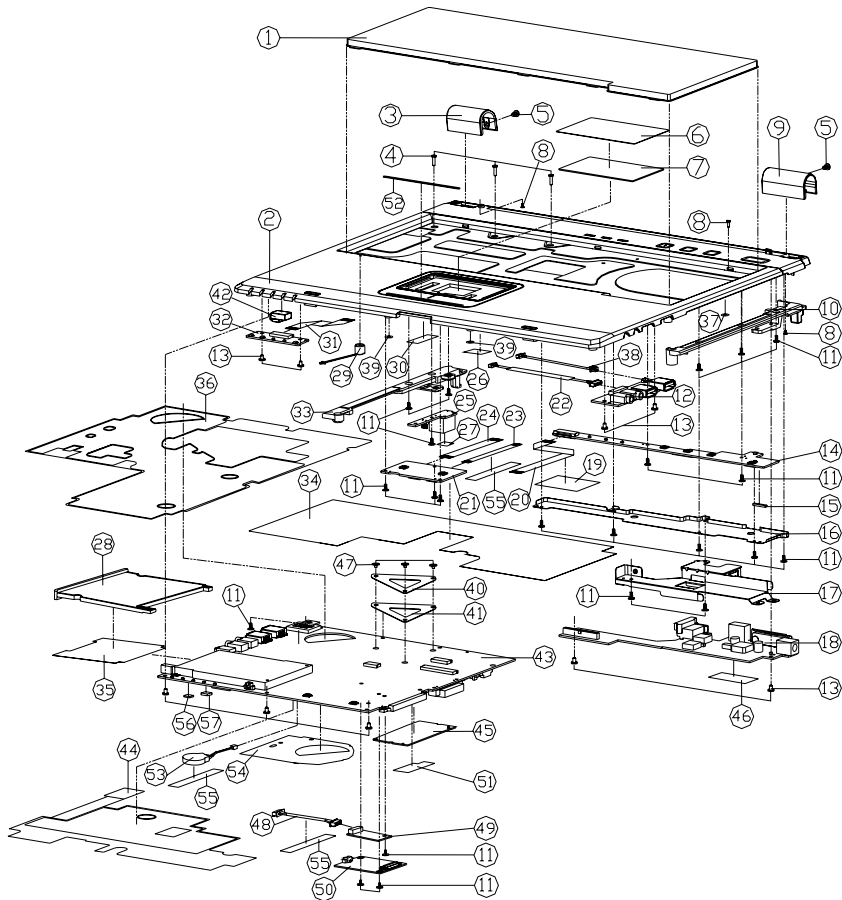
ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD (OPTION) M550G	6-88-M550G-011-1	
2	TOP CASE MODULE M550G	6-39-M550G-016	
3	HINGE COVER (L)/PC-HINGE M550G	6-42-M550G-020	
4	SCREW M5X4, KI BK/2 ICT NY (RHS)	6-35-B6125-9RA	
5	SCREW M5X4, KI BK/2 ICT NY (RHS) 1-430	6-35-B6125-3RE	
6	MYLAR FOR M550G TOP CASE (RHS)	6-40-M5512-030	
7	TOUCH PAD B16409-5103 M550N	6-49-M55N2-010	
8	SCREW M5X4, KI BK/2 ICT NY (RHS) 1-430	6-35-B6125-6RB	
9	HINGE COVER (R)/PC-HINGE M550G	6-42-M550G-010	
10	TOP CASE DECASTING/LAN M550G	6-33-M55J2-021	
11	SCREW M5X4, KI NI ICT GTY-PATCH (RHS)	6-35-B1120-3RE	
12	AUDIO BOARD V5.0 M550N	6-77-M55N8-005	
13	SCREW M5X4, KI BK/2 ICT NY (RHS)	6-35-B6125-5RA	
14	HOT KEY BOARD V3.0 M550G	6-77-M55G5-003	
15	GASKET (QW405410) FOR HOTKEY M550G	6-47-00190-115	
16	HOTKEY BRACKET AL M550G	6-33-M55G2-041	
17	CHANGER BRACKET SECC M550J (RHS)	6-33-M55J2-011	
18	DC/DC BOARD V4.0 M550J	6-77-M55J2-004	
19	MYLAR (QW405410) GASKET FOR TOP CASE	6-40-11A5J-020	
20	WIRE CABLE FROM W/B TO MODM M550N (RHS)	6-43-M55N0-012	
21	WIRE CABLE FOR AUDIO BOARD TO W/B OP M550N (RHS)	6-43-M55N0-031	
22	WATER RESISTANT MYLAR FOR 28PC CLONK	6-37-02000-603	
23	FTC CABLE FOR CLICK TO W/B W/ M550N (RHS)	6-43-M55G2-010	
24	FTC CABLE FOR CLICK TO TOUCH PAD OP M550G	6-43-M55G0-010	
25	TOUCH PAD GROUND AL FOLLOWING FOR ENAL	6-47-M55G2-010	
26	LAN BOARD V3.0 M550G	6-77-M55G2-003	
27	GASKET (QW405410) FOR LAN M550G	6-47-00190-093	
28	HOTKEY CABLE MYLAR M550G	6-40-M55G2-060	
29	FTC CABLE FOR HOTKEY TO W/B L-CLAM TOP	6-43-M55G0-040	
30	CLICK BOARD V1.0 M550N	6-77-M55N2-001	
31	TOUCH PAD GROUND AL FOLLOWING FOR ENAL	6-47-M55G2-020	
32	FTC CABLE FOR LED TO W/B OP M550G (RHS)	6-43-M55G0-021	
33	MICROPHONE (QW405410)25-FIL-UP DRV2V 22K	6-23-EM55G-010	
34	TOP CASE DECASTING/LAN M550G	6-33-M55J2-031	
35	1394 RUBBER SILICONE M550V (RHS)	6-47-M55VP-011	
36	LED BOARD V3.0 M550G	6-77-M55G4-003	
37	W/B TOP COPPER-MYLAR M550J (RHS)	6-33-M55J5-040	
38	TOP CASE COPPER M550N	6-33-M55J2-041	
39	PCMCIA DUMMY CARD	6-42-M300P-010	
40	MYLAR FOR PCMCIA M540G (RHS)	6-40-M54GP-010	
41	GASKET (QW405410) FOR CARD READER M550J	6-47-00190-076	
42	GASKET (QW405410) FOR CARD READER M550J	6-47-00190-088	
43	SCREW M5X4, KI BK/2 ICT NY (Q6,1-435) (RHS)	6-35-B6125-2RC	
44	CPU SUPPORT BRACKET SUS M550J (RHS)	6-33-M55J5-030	
45	CPU SUPPORT BRACKET MYLAR M550J (RHS)	6-40-M55J5-010	
46	MAIN BOARD V4.0 M550J	6-77-M55J0-004	
47	WLAN (QW405410) MINI-PCI 38 PIN-FREE INTEL V	6-88-M55G2-424	
48	WLAN (QW405410) MINI-PCI 38 PIN-FREE INTEL V	6-88-M55G2-421	
49	MYLAR FOR BLUETOOTH M550G (RHS)	6-40-M54G5-070	
50	BLUETOOTH 28 PIN MODULE (QW405410) (RHS)	6-88-M55J5-390	
51	MODM ALUMINUM 12 PIN CONNECTOR (QW405410) (RHS)	6-88-M55N1-530	
52	MODM ALUMINUM 12 PIN CONNECTOR (QW405410) (RHS)	6-88-M55J1-390	
53	WIRE CABLE FOR BLUETOOTH TO W/B W/ M550G (RHS)	6-43-M55G0-071	
54	W/B BOTTOM USB MYLAR/FIBER M550J (RHS)	6-40-M55J5-040	
55	BAT 20MM 3V ZIGBEE W/CABLE SHM (QW405410)	6-23-22015-P2C	
56	W/B BOTTOM COPPER-MYLAR M550J (RHS)	6-33-M55J5-050	
57	TAPE MYLAR (A) MYLAR M550J (RHS)	6-40-M55J2-010	
58	TAPE MYLAR (C) MYLAR M550J (RHS)	6-40-M55J2-030	

Figure A - 1  
Top (M550J)



Top (M555J)

Figure A - 1  
Top (M555J)



ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD (OPTION) M5X0G	80-M55G0-011-1	
2	TOP CASE MODULE	39-M5552-013	
3	HINGE COVER (L),PC	42-M555Y-020	
4	SCREW M2.5X9. KI BK/2 ICT NY	35-B6125-9RA	
5	SCREW M4X8. KI BK/2 ICT NY	35-B6120-3RE	
6	MYLAR FOR M555G TOP CASE	40-M5552-030	
7	TOUCH PAD B00409-5103 M550N	49-M55N2-010	
8	SCREW M4X8. KI BK/2 ICT NY	35-B6120-6RB	
9	HINGE COVER (R),PC	42-M555Y-010	
10	TOP CASE DIECASTING(A)Z91D M550G	33-M55J2-021	
11	SCREW M4X8. KI NI ICT GTY-PATCH	35-B1120-3RE	
12	AUDIO BOARD V4.0 M550N	77-M55N8-004	
13	SCREW M2.5X5L KI BK/2 ICT NY	35-B6125-5RA	
14	HOT KEY BOARD V2.0 M550G	77-M555S-002	
15	GASKET (N44H35L1D) FOR HOTKEY M550G	47-00190-115	
16	HOTKEY BRACKET,AL M550G	33-M55G2-041	
17	CHANGER BRACKET,SECC M550J	33-M55J2-011	
18	DC/DC BOARD V5.0 M550G	77-M55GC-005	
19	HOTKEY CABLE MYLAR,MYLAR M550G	40-M55G2-060	
20	FFC CABLE FOR HOTKEY TO W/B L4640M TOP M	43-M55G0-040	
21	CLICK BOARD V1.0 M550N	77-M55N2-001	
22	WIRE CABLE FOR AUDIO BOARD TO W/B RP M550N	43-M55N0-031	
23	FFC CABLE FOR CLICK TO W/B RP M550G	43-M55G0-010	
24	FFC CABLE FOR CLICK TO TOUCH PAD RP M550G	43-M55G2-010	
25	LAN BOARD V3.0 M550G	77-M55GZ-003	
26	TOUCH PAD GROUND AL TOLL0749 FOR CMAL	47-M55G2-010	
27	GASKET (N44H35L1D) FOR LAN M550G	47-00190-093	
28	PCMCIA DUMMY CARD	42-M300P-010	
29	MICPHONE (M44350M635-FIL-10)BY2V 22K	23-EM55G-010	
30	TOUCH PAD GROUND AL TOLL0749 FOR CMAL	47-M55G2-020	
31	FFC CABLE FOR LED TO W/B RP M550G	43-M55G0-021	
32	LED BOARD V3.0 M550G	77-M55G4-003	
33	TOP CASE DIECASTING(A)Z91D M550G	33-M55J2-030	
34	TOP CASE COPPER M550J	33-M55J2-040	
35	MYLAR FOR PCMCIA M540G	40-M54GP-010	
36	W/B TOP COPPER-MYLAR M550J	33-M55JS-040	
37	MYLAR (M44H3044L)WASHER FOR FIB CASE	40-11A5J-020	
38	WIRE CABLE FROM W/B TO MODERN M550N	43-M55N0-012	
39	WASHER M44H3044L WASHER FOR FIB CASE	37-02000-603	
40	CPU SUPPORT BRACKET,SUS M550J	33-M55JS-030	
41	CPU SUPPORT BRACKET,MYLAR,MYLAR M550J	40-M55JS-010	
42	1394 RUBBER,SILICONE M550V	47-M55VP-010	
43	MAIN BOARD V3.0 M550J	77-M55J0-003A	
44	W/B BOTTOM COPPER-MYLAR M550J	33-M55JS-050	
45	WLAN BR2114G MINI-PCI 3B INTEL 250M6	88-M40A2-424	
46	WLAN BR211 G/2 MINI-PCI 3A M5-6831 + G1	88-D70T2-472	
47	TAPE MYLAR (C),MYLAR M550J	40-M55J2-030	
48	SCREW M4X8. KI BK/2 ICT NY	35-B6120-2RC	
49	WIRE CABLE FOR BLUE TOOTH TO W/B RP M550G	43-M55G0-070	
50	BLUE TOOTH V12 MODULE 8 PIN CIP-B003 0810	88-M38A5-622	
51	WIRE KEY 8 PIN W/KEYS 0810M 0810M 0810M 0810M	88-M55V1-530	
52	MYLAR FOR BLUE TOOTH M5 M540G	88-M55V1-390	
53	TOUCH PAD COSMETIC BAR M550G	40-M54GS-070	
54	BAT 2000 3V 220mAh W/CABLE 500M CR2032	23-22015-P80	
55	W/B BOTTOM USB MYLAR/883 M550J	40-M55JS-040	
56	TAPE MYLAR (A),MYLAR M550J	40-M55J2-010	
57	GASKET (N44H35L1D) FOR CARD READER M550J	47-00190-076	

Bottom (M550J/M555J)

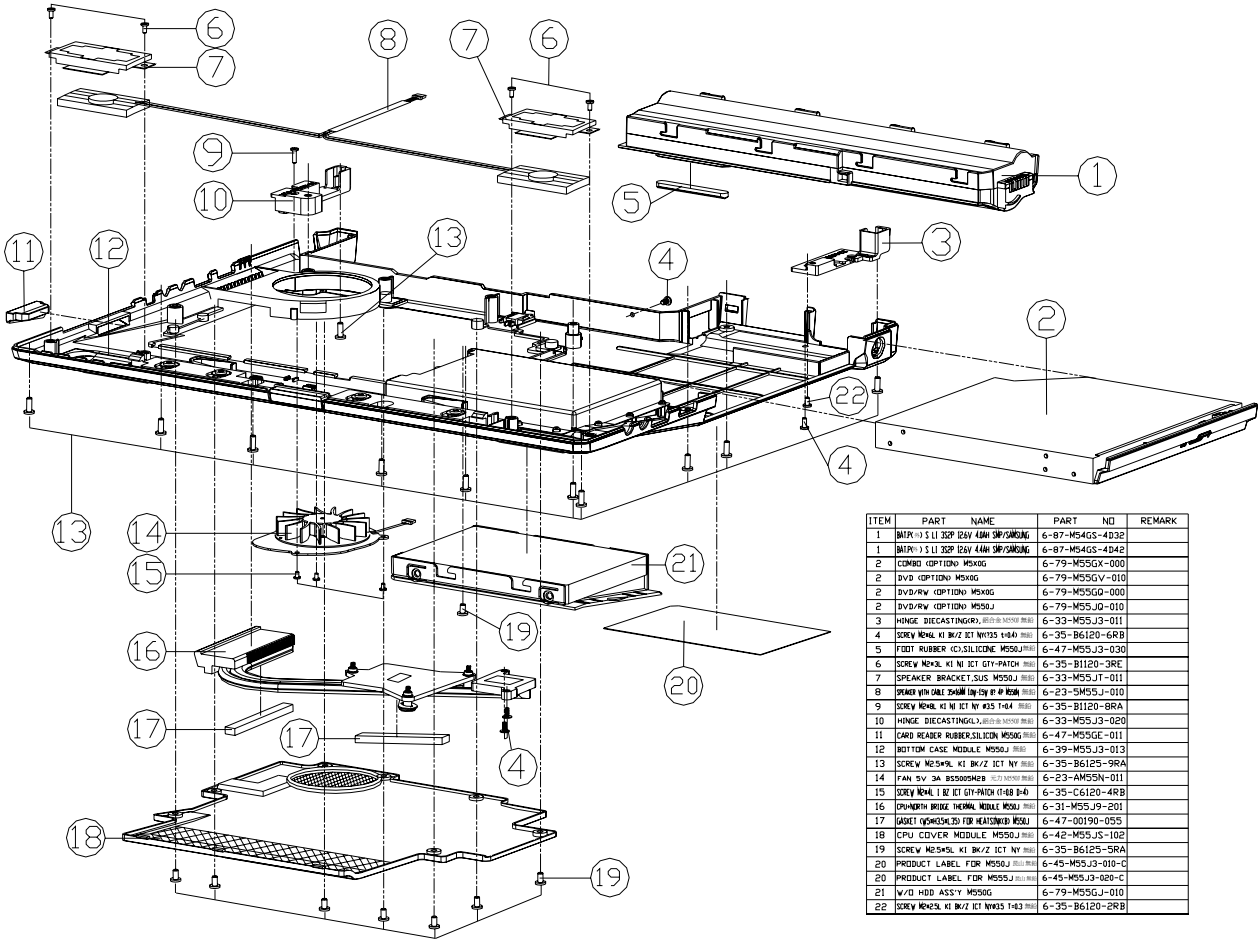


Figure A - 2  
Bottom  
(M550J/M555J)

ITEM	PART	NAME	PART	NO	REMARK
1	BATTERY	SLI 3.6V 4400mAh	6-07-M54GS-4D32		
1	BATTERY	SLI 3.6V 4400mAh	6-07-M54GS-4D42		
2	COMBO	OPTIONAL M550J	6-79-M55GX-000		
2	DVD	OPTIONAL M550J	6-79-M55GV-010		
2	DVD/RW	OPTIONAL M550J	6-79-M55GQ-000		
2	DVD/RW	OPTIONAL M550J	6-79-M55GQ-010		
3	HINGE	Die-casting (R)	6-33-M55J3-011		
4	SCREW	M4xL KI BK/2 ICT NY103 1-04	6-35-B6120-6RB		
5	FOOT	RUBBER (C) SILICONE M550J	6-47-M55J3-030		
6	SCREW	M4xL KI BK/2 ICT GY-PATCH	6-35-B1120-3RE		
7	SPEAKER	BRACKET SUS M550J	6-33-M55JT-011		
8	SPRINGER	WITH GATE 2400mm (14-15) 4-16	6-23-M555J-010		
9	SCREW	M4xL KI BK/2 ICT NY103 1-04	6-35-B1120-6RA		
10	HINGE	Die-casting (R) M550J	6-33-M55J3-020		
11	CARD	READER RUBBER SOLUTION M550J	6-47-M55GE-011		
12	BOTTOM	CASE MODULE M550J	6-39-M55J3-013		
13	SCREW	M2.5xL KI BK/2 ICT NY	6-35-B6125-9RA		
14	FAN	5V 3A B5500S2AB (12.7) M550J	6-23-AM55N-011		
15	SCREW	M4xL KI BK/2 ICT GY-PATCH (1-08) 4-16	6-35-C6120-4RB		
16	CPU	HEAT SINK THERMAL MODULE M550J	6-31-M55J9-201		
17	ADHESIVE	(M550J) FOR HEAT SINK M550J	6-47-00190-055		
18	CPU	COVER MODULE M550J	6-42-M55J3-102		
19	SCREW	M4xL KI BK/2 ICT NY	6-35-B6125-5RA		
20	PRODUCT	LABEL FOR M550J	6-45-M55J3-010-C		
20	PRODUCT	LABEL FOR M550J	6-45-M55J3-020-C		
21	V/D	HDD ASS'Y M550J	6-79-M55GJ-010		
22	SCREW	M4xL KI BK/2 ICT NY103 1-04	6-35-B6120-2RB		

## A.Part Lists

This exploded view diagram illustrates the assembly of the LED display. The components are numbered 1 through 24, indicating the sequence of assembly. The diagram shows the top panel (1) being secured with screws (2) and a central component (3). The bottom panel (4) is shown with various internal components like the power supply (5), control board (6), and cooling fan (7). The assembly is supported by a frame (8) and includes a mounting bracket (9) and a cable (10). The bottom panel (11) is shown with various internal components like the power supply (12), control board (13), and cooling fan (14). The assembly is supported by a frame (15) and includes a mounting bracket (16) and a cable (17). The bottom panel (18) is shown with various internal components like the power supply (19), control board (20), and cooling fan (21). The assembly is supported by a frame (22) and includes a mounting bracket (23) and a cable (24).

ITEM	PART	NAME	PART NO	REMARK
1	LCD RUBBER PAD	FOR 647-D70T1-NC	6-47-D70T1-NC	
2	SCREW M5X0.8 KI BRZ CT NY-1		6-35-86125-SRA	
3	W/ID COVER RUBBER M550G		47-M55G1-020	FOR W/ID C
4	LCD FRONT COVER MODULE M550G		6-39-M55G01-015-12	
5	FOR M55G1-1-LOGGOSTYLE-N37E		6-45-M55G1-020	
6	LED 15 T10 1/4 R5P250 V4 SXGA		50-L-5265-G00	FOR AU
7	LED 1 T10 AU R5250G V25-GRAND 15 XGA		50-L-2260-G03	FOR AU
8	LED 1 CPT CLAM550RUBUS-GRAD 15 XGA		50-L-2260-C00	FOR CPT
9	LED 1 CPT CPT CLAM550H41 15 XGA		50-L-2260-C01	FOR CPT
10	LED 1 T10 AU R5250G V4 15 XGA 6.4MM		6-50-L-2264-G02	
11	LED 1 C001 C012060701 15 XGA 5.7MM		50-L-2267-000	FOR OD
12	SCREW R4M4 1/8 INCH PT-CHT (1/8 INCH)		6-35-C6120-48R	
13	BRACKET (R) CRUS M550G		6-33-M55G01-012	
14	ANTENNA W/ID DUAL BAND P15A 62MH BLACK		6-23-M755G-013	
15	LCD LATCH (R) ZINC M550G		6-33-M55G1-050	
16	CMOS VIDEO CAMERA BNC-PRIOHD-0 20K PIXEL		6-88-M55AC-610	(OPTION)
17	CMOS VIDEO CAMERA BNC-PRIOHD-0 20K 1.3M		88-M55G-610	(OPTION)
18	LCD LATCH (L) ZINC M550G		6-33-M55G1-060	
19	ANTENNA BLUETOOTH DUAL BAND P15A 62MH		6-23-M755G-022	(OPTION)
20	WIRE CABLE FOR C0D TO W/8 SP M550G		6-43-M55N1-020	
21	LCD BRACKET (L) SUGO M550G		6-33-M55G1-022	
22	COAXIAL CABLE FOR AU550SPUS 5GCA M550		43-M55N1-020	
23	SCREW M5X0.8 KI BRZ CT NY-035 1/4		6-35-86120-SRE	
24	WIRE CABLE FOR INVERTER BOARD TO W/8 SP M5		6-43-M55N0-010	
25	INVERTER MODULE M550G (EPS)		6-76-M55GR-014	
26	LCD BACK COVER MODULE M550G		6-39-M55G1-022-1	
27	PC MYLAR (27*20*0.51)T FOR M540G		6-40-00150-270	
28	PC MYLAR (40*6*51)T FOR M550G		6-40-00150-400	
29	PORON (3*7*2)T FOR TOP CASE M550G		6-47-00192-500	
30	TAPE MYLAR (R) MYLAR M550G		6-40-M55J2-020	

LCD (M555J)

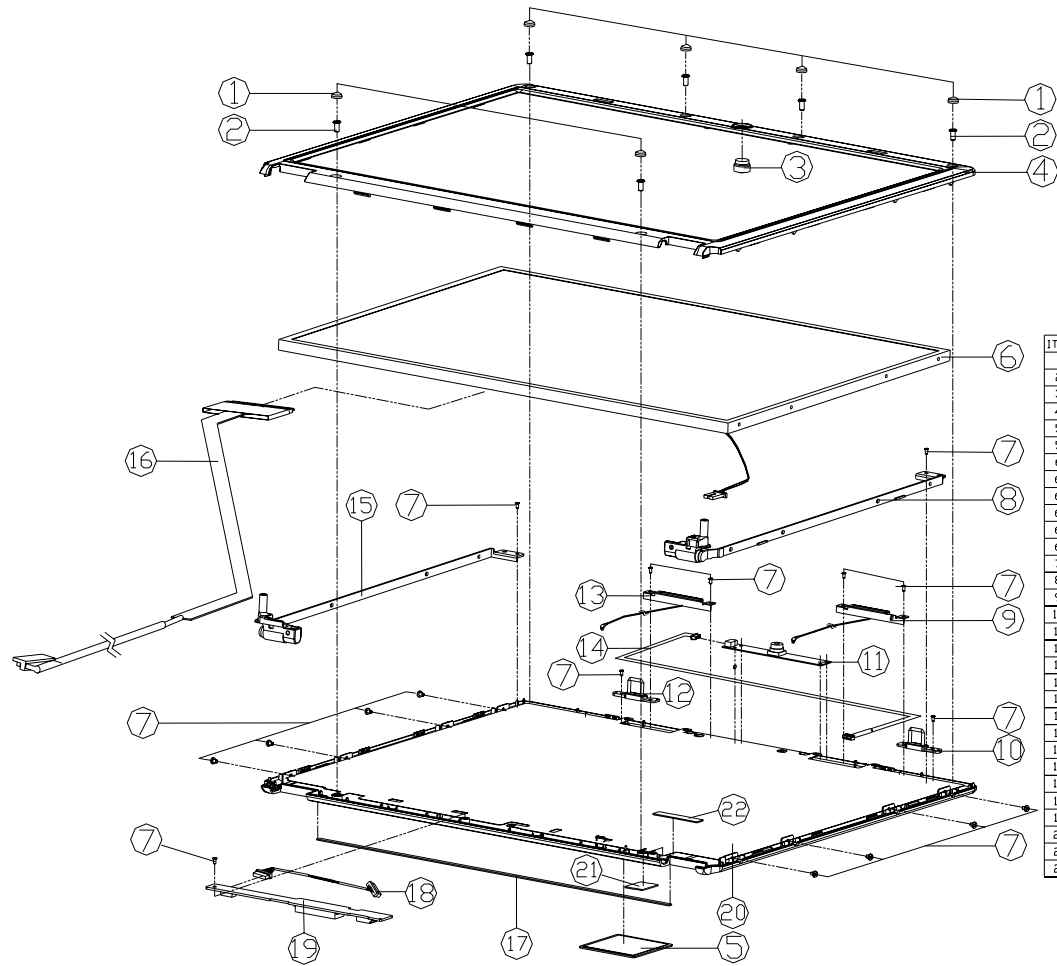


Figure A - 4  
LCD (M555J)

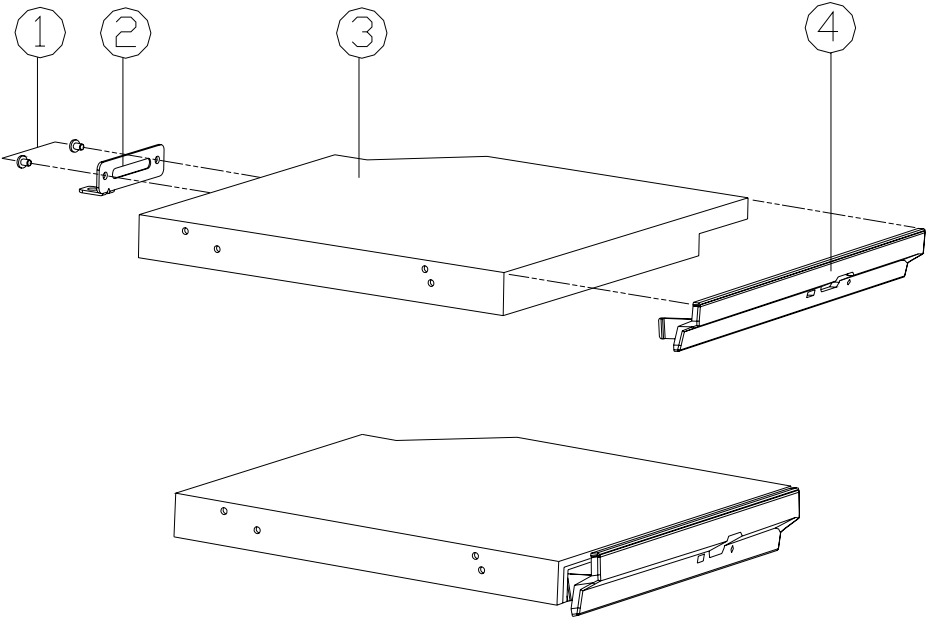
ITEM	PART NAME	PART NO	REMARK
1	LCD RUBBER PAD (OPTIONAL)	6-47-D70T1-0C0	
2	SCREW M2.5X4.5 KI BNL ICT GTY-PATCH (OPTIONAL)	6-5-B9125-5RB	
3	W/O CCD RUBBER/RUBBER M550G	47-M55GT-020	FOR W/O CCD
4	LCD FRONT COVER MODULE M550G (OPTIONAL)	6-39-M55G1-015-12	
5	(OPTIONAL) LOGO/STYLE-NOTE) M550G (OPTIONAL)	6-45-M55S1-020	
6	NAME PLATE M550G (OPTIONAL)	6-45-M55S1-010	
7	LCD 15" TFT AU 800P603 V10 SXGA+ 63MM	50-L5265-G00	FOR AU
8	LCD T CPT CLAA150X603 15" SXGA+ 63MM	50-L2260-C01	FOR CPT
9	LCD T CPT CLAA150X603 15" SXGA+ 63MM	50-L5265-C00	FOR CPT
10	LCD T AU 8150X602 V4 15" SXGA+ 63MM	6-50-L2264-G02	FOR AU
11	LCD T AU 8150X601 V25-GRABO 15" SXGA+ 63MM	50-L2260-G03	FOR AU
12	LCD T CPT CLAA150X603 15" SXGA+ 63MM	50-L2257-000	FOR CPT
13	SCREW M2.5 X 4.5 KI BNL ICT GTY-PATCH (OPTIONAL)	6-35-C6120-4RB	
14	LCD BRACKET (R), SUS M550G	6-33-M55G1-012	
15	ANTENNA BLUETOOTH DUAL BAND PIFA 63MM (OPTIONAL)	6-23-7M55G-013	
16	LCD LATCH (R), ZINC M550G	6-33-M55G1-050	
17	ONCS VIDEO CAMERA BNC-VIDEO-D 300K PIXEL	6-88-M56AC-610	(OPTION)
18	ONCS VIDEO CAMERA BNC-VIDEO-D 300K PIXEL	88-M55GC-610	(OPTION)
19	LCD LATCH (L), ZINC M550G	6-33-M55G1-060	
20	ANTENNA BLUETOOTH DUAL BAND PIFA 63MM (OPTIONAL)	6-23-7M55G-022	(OPTION)
21	WIRE CABLE FOR CCD TO N/B SP M550G (OPTIONAL)	43-M55N0-021	
22	LCD BRACKET (L), SUS M550G	6-33-M55G1-022	
23	CORRAL CABLE FOR AUTOPEAK SXGA M550G (OPTIONAL)	43-M55N1-020	
24	CORRAL CABLE FOR OPTICLANE SXGA M550G (OPTIONAL)	6-43-M55N1-010	
25	COSMETIC BARK (BLUE) M550G (OPTIONAL)	6-40-M55S1-020-1	
26	COSMETIC BAR M550G (OPTIONAL)	6-40-M55S1-020	
27	WIRE CABLE FOR INVERTER BOARD TO N/B SP M550G (OPTIONAL)	6-43-M55N0-010	
28	INVERTER MODULE M550G (EPS)	6-76-M55GR-014	
29	LCD BACK COVER MODULE M550G	6-39-M55S1-020-1	
30	(OPTIONAL) (27*20*0.15) FOR M540G (OPTIONAL)	6-40-00150-270	
31	PC MYLAR (40*6.5*1T) FOR M550G (OPTIONAL)	6-40-00150-409	



Part Lists

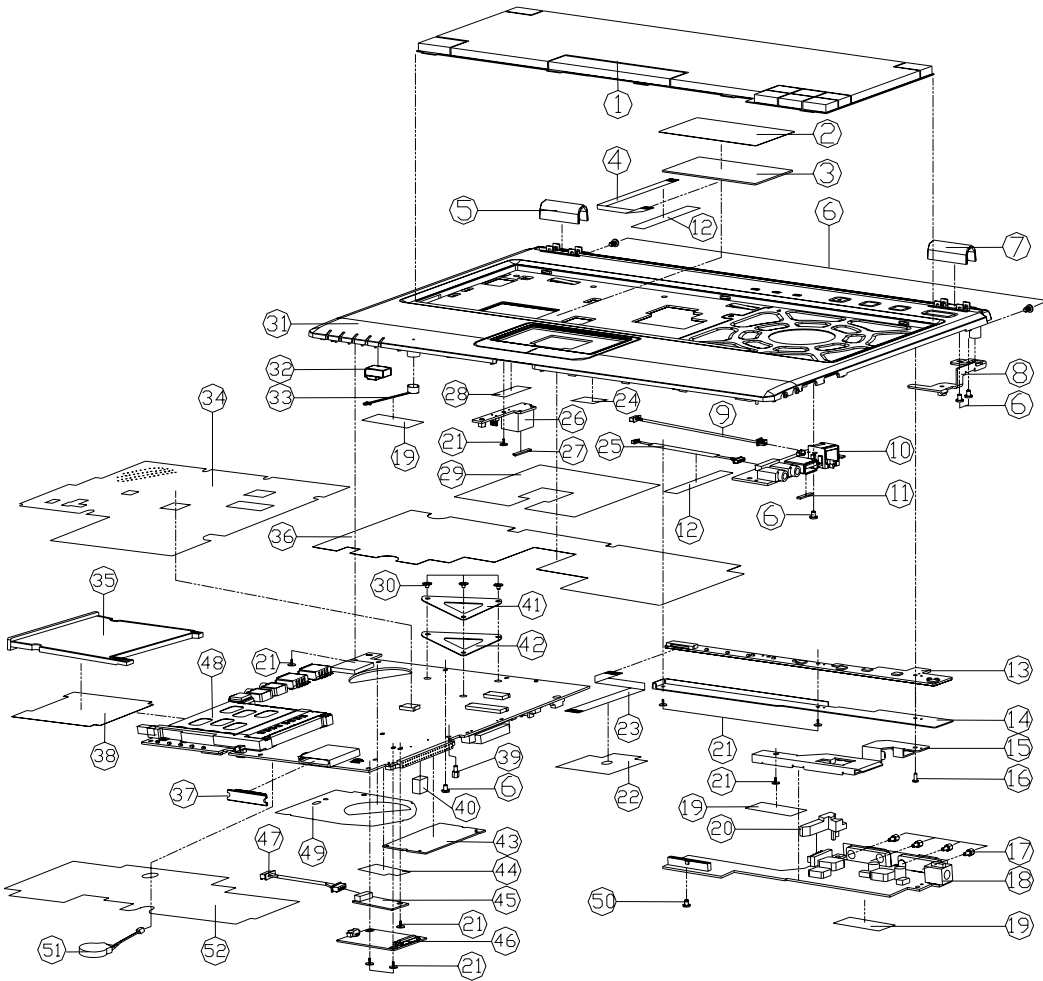
DVD-RW Drive (M550J)

Figure A - 5  
DVD-RW Drive  
(M550J)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*3L K1 NI ICT GTY-PATCH	6-35-B1120-3RE	
2	CD-RDM LOCK BRACKET,SECC M550G	6-33-M55GZ-011	
3	DVD/DUAL RW 5 1/4" 8X 12.7MM DVR-K15RA F/W	85-A078X-B02	
3	DVD/DUAL RW 5 1/4" 8X 12.7MM TS-L532A TOSH	85-A078X-T00	
3	DVD/DUAL RW 5 1/4" 8X 12.7MM TS-L532U TSST	6-85-A078X-T01	
4	DUAL DVD BEZEL MODULE M550G	6-42-M55GV-204	

Top (M540J)



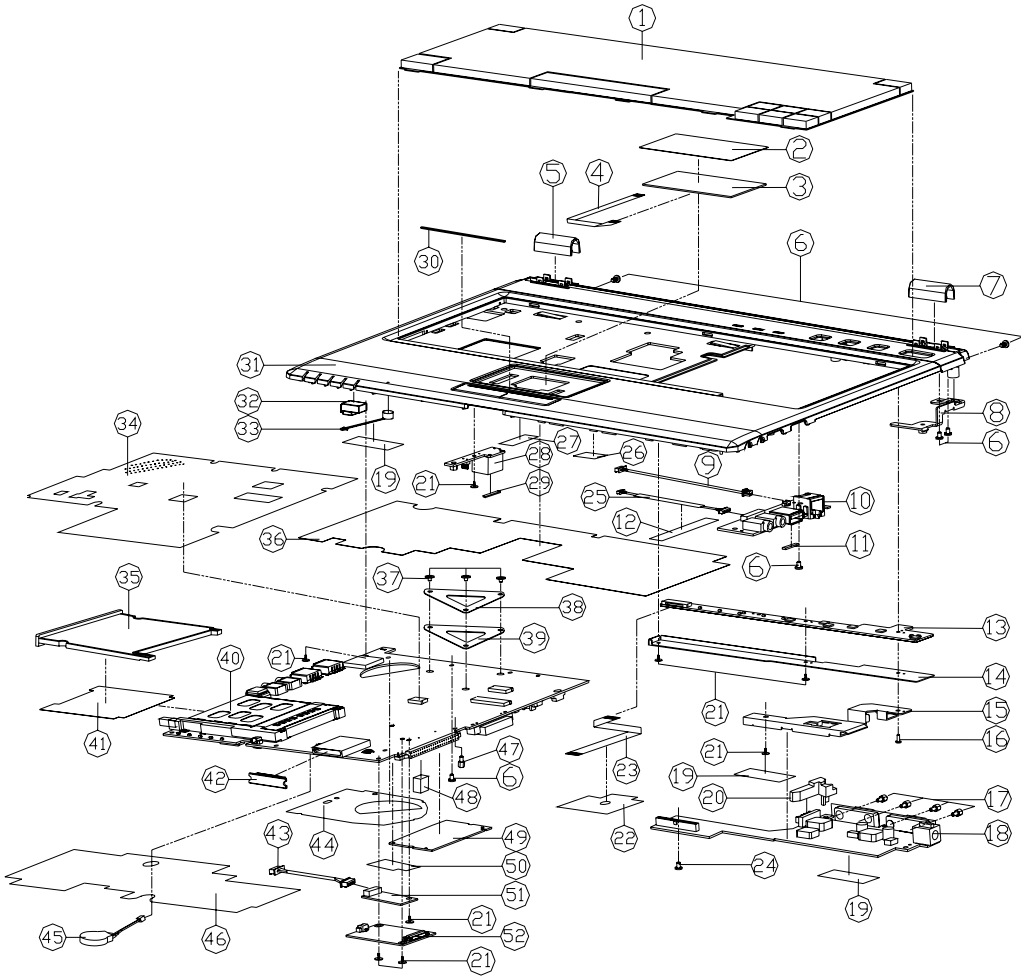
ITEM	PART NAME	PART NO	REMARK
1	KEY BOARD (OPTION) M5X0G	6-80-M55G0-011-1	
2	TOUCH PAD MYLAR T+0.22 M540G	6-40-M54G2-020	
3	TOUCH PAD B10409-S103 M550N	6-49-M55N2-010	
4	ITE CABLE FOR TOUCH PAD TO M/B TOP M54G	6-43-M54G0-011	
5	HINGE COVER (L) M3600H M540G	6-42-M54GY-020	
6	SCREW M2.5x4L F NI ICT NY	6-35-B1125-4R0	
7	HINGE COVER (R) M3600H M540G	6-42-M54GY-010	
8	TOP CASE SUPPORT (R) SUS T-10 M540G	6-33-M54G2-032	
9	WIRE CABLE FOR AUDIO BOARD TO MAIN BOARD	6-43-M55NU-012	
10	AUDIO BOARD V5.0 M540N	6-77-M54NB-005	
11	GASKET (L) M54HES2 FOR USB M540G	6-47-00190-13A	
12	TAPE MYLAR (A) MYLAR M550J	6-40-M55J2-010	
13	HOT KEY BOARD V3.0 M540G	6-77-M54GS-003	
14	HOTKEY SHIELDINGAL T+0.5 M540G	6-33-M54G2-020	
15	CABLE SUPPORT BRACKET M540J	6-33-M54J2-010	
16	SCREW M2x4L KT ICT (M4.5 T+0.4)	6-35-B0120-4R0	
17	HEX STUD SUM22 NI-PL 10mm	6-34-96002-000	
18	DC/DC BOARD V4.0A M540J	6-77-M54JC-004	
19	TAPE MYLAR (C) MYLAR M550J	6-40-M55J2-030	
20	RUBBER FOR BATTERY CON M540G	6-47-M54JM-010	
21	SCREW M2x4L KT NI ICT G1Y-PATCH	6-35-B1120-3RE	
22	HOTKEY CABLE MYLAR M540G	6-40-M54G2-070	
23	ITE CABLE FOR AUDIO BOARD TO M/B M54G	6-43-M54G0-041	
24	TOUCH PAD GROUND AL TOLL2PH0 FOR CHAL	6-47-M55G2-010	
25	WIRE CABLE FOR AUDIO BOARD TO M/B M54G	6-43-M54NB-010	
26	LAN BOARD V3.0 M550G	6-77-M55G2-003	
27	GASKET (L) M54HES2 FOR LAN BOARD M54G	6-47-00190-145	
28	TOUCH PAD GROUND AL TOLL2PH0 FOR CHAL	6-47-M55G2-020	
29	FOR T/P BUTTON M540J	6-47-M54J2-010	
30	SCREW M2x4L KT Bx2 ICT NY (M4.5)	6-35-B6120-2RC	
31	TOP CASE MODULE M540J	6-39-M54J2-010	
32	1394 RUBBER M540G	6-47-M54GP-010	
33	MC 04M350625-TL-10 2V-1W 2X W/CA	6-23-EM54G-011	
34	FOR M/B TOP SIDE M540J	6-33-M54JS-040	
35	PCMCIA DUMMY CARD	6-42-M300P-010	
36	MYLAR BRD FOR TOP CASE M540J (T+0.125)	6-47-M54G2-024	
37	RUBBER FOR CARD READER M540G	6-47-M54GE-010	
38	MYLAR FOR PCMCIA M540G	6-40-M54GP-010	
39	STUD IN-6MM M2.5MM FOR M/B M540G	6-34-M54GS-020	
40	RUBBER FOR CPU COVER SUPPORT M540J	6-47-M54JS-020	
41	CPU SUPPORT BRACKET SUS M550J	6-33-M55JS-030	
42	CPU SUPPORT BRACKET MYLAR MYLAR M550J	6-40-M55JS-010	
43	WLAN BEZEL-4G W/0-0RD PCE 2554G	6-88-M66N2-424	
44	MYLAR FOR BLUE TOUCH MB M540G	6-40-M54GS-070	
45	BLUE TOUCH 2.8 IN PIN MOUNT QUADRAHILL M540G	6-88-M55JS-390	
46	WIRE CABLE 12 PIN CONCAVITY 2002-010 M55	6-88-M55J1-390	
47	WIRE CABLE 12 PIN CONCAVITY 2002-010 M55	6-88-M55N1-530	
48	WIRE CABLE FOR BLUE TOUCH TO M/B M54G	6-43-M55G0-070	
49	MAIN BOARD V4.0A M540J	6-77-M54J0-004	
50	M/B BOTTOM USB MYLAR/800 M550J	6-40-M55JS-040	
51	SCREW M2.5x4L KT NI ICT NY (M4.5)	6-35-B1125-4R0	
52	WIRE CABLE 20MM V/CABLE 5MM 0202021	6-23-22015-P2C	
53	FOR M/B BOTTOM SIDE M540J	6-33-M54JS-050	

Figure A - 6  
Top (M540J)

Part Lists

Top (M545J)

Figure A - 7  
Top (M545J)



ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD (OPTION) M540G	6-88-M55GP-011-1	
2	TOUCH PAD MYLAR T-02R M540G	6-40-M54G2-020	
3	TOUCH PAD 810489-5103 M550N	6-49-M55N2-010	
4	ITC CABLE FOR TOUCH PAD TO M/B OP M54G	6-43-M54G0-011	
5	HINGE COVER (L) GE C6200 M545G	6-2-M54GY-020	
6	SCREW M2.5x4L F. NI ICT NY	6-35-21125-4R0	
7	HINGE COVER (R) GE C6200 M545G	6-42-M54GY-010	
8	TOP CASE SUPPORT (R) SUS T-10 M54G	6-33-M54G2-032	
9	WIRE CABLE FOR AUDIO BOARD TO MOON M50N	6-43-M55NU-012	
10	AUDIO BOARD V5.0 M540N	6-77-M54N8-005	
11	GASKET 0.13x4x0.25 FOR USB M540G	6-47-00190-13A	
12	TAPE MYLAR (A) MYLAR M550J	6-40-M55J2-010	
13	HOT KEY BOARD V3.0 M540G	6-77-M54GS-003	
14	HOTKEY SHIELDING AL T-05 M540G	6-33-M54G2-020	
15	CABLE SUPPORT BRACKET M540J	6-33-M54J2-011	
16	SCREW M2x4L KI ICT (045 T-04)	6-35-B0120-4R0	
17	HEX STUD SUMER NI-PL 10mm NY	6-34-96002-00A	
18	DC/DC BOARD V4.0 M540J26-JAN-2006	6-77-M54J2-004	
19	TAPE MYLAR (C) MYLAR M550J	6-40-M55J2-030	
20	RUBBER FOR BATTERY CON M540G	6-47-M54G2-011	
21	SCREW M2x4L KI NI ICT CITY-PATCH	6-35-B1120-3RE	
22	HOTKEY CABLE MYLAR M540G	6-40-M54G2-070	
23	WIRE CABLE FOR HENRY BOARD TO M/B R/W	6-43-M54G0-041	
24	SCREW M2x4L KI NI ICT NY (045 T-04)	6-35-B1125-6R0	
25	WIRE CABLE FOR AUDIO BOARD TO M/B MC	6-43-M54N8-010	
26	TOUCH PAD GROUND AL T-011214 FOR ENLA	6-47-M55G2-010	
27	TOUCH PAD GROUND AL T-011214 FOR ENLA	6-47-M55G2-020	
28	LAN BOARD V3.0 M550G26-JAN-2006	6-77-M55G2-003	
29	GASKET 0.13x4x0.25 FOR LAN BOARD M54G	6-47-00190-145	
30	TOUCH PAD COSMETIC BAR (PC) M545G	6-40-M5452-010	
31	TOUCH PAD COSMETIC BAR BLUE M545G	6-40-M5452-030	
32	TOP CASE MODULE M545N	6-39-M54N2-010	
33	1394 RUBBER M540G	6-47-M54GP-010	
34	NO. 040350M625-FIL-0 2V-BV 22K V/O	6-23-EM54G-011	
35	PCMCIA DUMMY CARD	6-42-M300P-010	
36	MYLAR BRIDGE FOR TOP CASE M540G	6-47-M54G2-024	
37	SCREW M2x4L KI BRZ ICT NY (045 T-05)	6-35-B6120-2RC	
38	CPU SUPPORT BRACKET SUS M550J	6-33-M55J5-030	
39	CPU SUPPORT BRACKET MYLAR MYLAR M550J	6-40-M55J5-010	
40	MAIN BOARD V4.0 M540J26-JAN-2006	6-77-M54J2-004	
41	MYLAR FOR PCMCIA M540G	6-40-M54GP-010	
42	RUBBER FOR CARD READER M540G	6-47-M54G2-010	
43	WIRE CABLE FOR BLUETOOTH TO M/B M540G	6-43-M55G0-070	
44	M/B BOTTOM USB MYLAR/M550J	6-40-M55J5-040	
45	BAT. CON. 3V ZUMIN W/CABLE 3MM 020201	6-23-22015-PPC	
46	WIRE FOR M/B BOTTOM SIDE M540G	6-33-M54J5-050	
47	STUD 0.13x4x0.25MM FOR M/B M54G	6-34-M54G5-020	
48	RUBBER FOR CPU COVER SUPPORT M54G	6-47-M54J5-020	
49	W/LN BRIDGE-ING M540G PCB-E 250K 1	6-88-M56N2-42A	
50	MYLAR FOR BLUETOOTH M540G	6-40-M54G5-070	
51	BLUETOOTH 2.0 0 PIN MODULE GUTTORSEN BULL	6-88-M55J5-390	
52	MOON AZULIA 12 PIN CONCAVANT K082-0101 R0N	6-88-M55J1-390	
52	MOON AZULIA 12 PIN CONCAVANT K082-0101 R0N	6-88-M55N1-530	

Bottom (M540J/M545J)

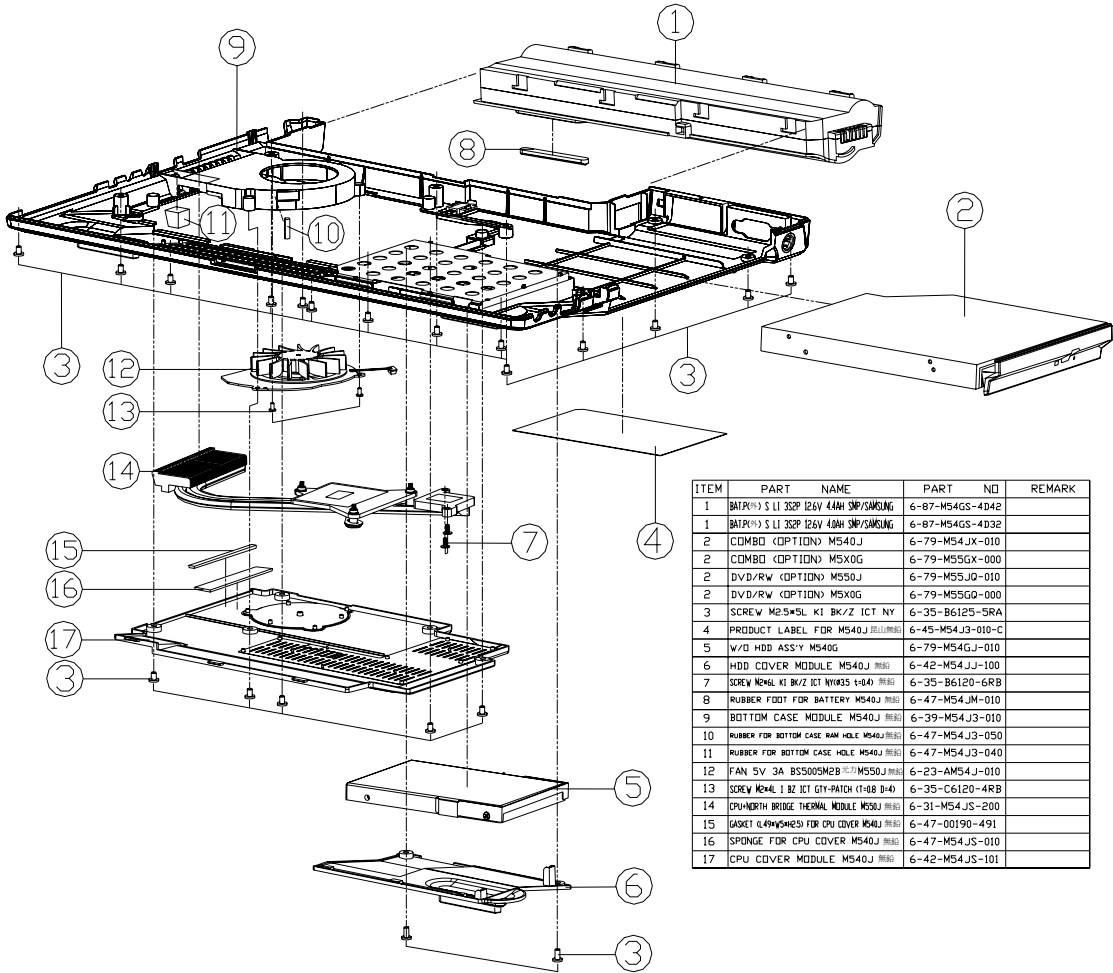


Figure A - 8  
Bottom (M540J)

ITEM	PART NAME	PART NO	REMARK
1	BATTERY S LI 352P 12.6V 4400 SMD/SAMSUNG	6-87-M54GS-4042	
1	BATTERY S LI 352P 12.6V 4400 SMD/SAMSUNG	6-87-M54GS-4032	
2	COMBO (OPTION) M540J	6-79-M54JX-010	
2	COMBO (OPTION) M5X0G	6-79-M55GX-000	
2	DVD/RW (OPTION) M550J	6-79-M55JQ-010	
2	DVD/RW (OPTION) M5X0G	6-79-M55GQ-000	
3	SCREW M2.5x5L K1 BK/Z ICT NY	6-35-B6125-SRA	
4	PRODUCT LABEL FOR M540J (REPLACE)	6-45-M54J3-010-C	
5	W/O HDD ASS'Y M540G	6-79-M54GJ-010	
6	HDD COVER MODULE M540J (REPLACE)	6-42-M54JJ-100	
7	SCREW NEM6 K1 BK/Z ICT NYX35 1-04 (REPLACE)	6-35-B6120-6RB	
8	RUBBER FOOT FOR BATTERY M540J (REPLACE)	6-47-M54JM-010	
9	BOTTOM CASE MODULE M540J (REPLACE)	6-39-M54J3-010	
10	RUBBER FOR BOTTOM CASE RAM HOLE M540J (REPLACE)	6-47-M54J3-050	
11	RUBBER FOR BOTTOM CASE HOLE M540J (REPLACE)	6-47-M54J3-040	
12	FAN 5V 3A B5500SM2B (7.7) M550J (REPLACE)	6-23-AM54J-010	
13	SCREW M2x4.1 BZ ICT G1Y-PATCH (1-08) D=4	6-35-C6120-4RB	
14	CPH/NORTH BRIDGE THERMAL MODULE M550J (REPLACE)	6-31-M54JS-200	
15	GASKET (4.9x9x0.25) FOR CPU COVER M540J (REPLACE)	6-47-00190-491	
16	SPONGE FOR CPU COVER M540J (REPLACE)	6-47-M54JS-010	
17	CPU COVER MODULE M540J (REPLACE)	6-42-M54JS-101	

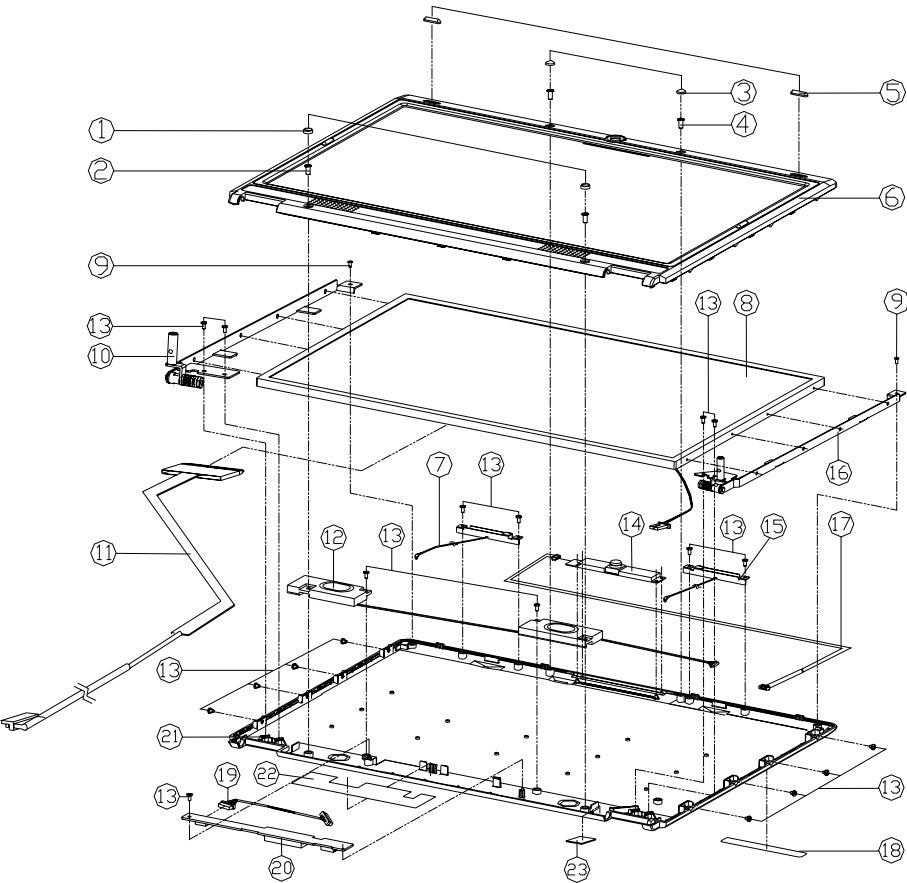
A.Part Lists



Part Lists

LCD (M540J)

Figure A - 9  
LCD (M540J)



ITEM	PART NAME	PART NO.	REMARK
1	RUBBER FOR LCD FRONT COVER (CIRCLE)	6-47-M54GI-030	
2	SCREW M2.5*SL K1 BK/2 ICT NY	6-35-B6125-SRA	
3	RUBBER FOR LCD FRONT COVER (CIRCLE)	6-47-M54GI-041	
4	SCREW M2*SL 1 BZ ICT	6-35-C6120-SRO	
5	RUBBER FOR LCD FRONT COVER (ELLIPSE)	6-47-M54GI-052	
6	LCD FRONT COVER MODULE M540G	6-39-M54GI-013-1	
7	ANTENNA BLUETOOTH DUAL BAND PIFA 62MM (GA)	6-23-7M54G-022	(OPTION)
8	LCD 14" TFT AU BEARER V.0 VESA 5.7MM	6-50-JC257-G00	FOR AU
8	LCD 14" TFT AU BEARER V.0 VESA 5.7MM	6-50-JC257-G01	FOR AU
8	LCD 14" TFT SAMSUNG LTM40V1-L01 VESA 5.5MM	50-JC255-M00	FOR SAMSUNG
8	OPTIONAL VESA LTM40V1-L01 VESA 5.5MM	6-50-JC257-C01	FOR CPT
9	SCREW M2*SL 1 NHDYD+4.5 T+0.8	6-35-C1120-2R0	
10	HINGE (CL) M540G	6-33-M54GI-023	
11	CABLE FOR AUDIO/VIDEO VESA M540J	6-23-SM54JL-010	
12	SCREW M2*SL 1 BK ICT NY	6-35-C1120-3R8	
13	DRS VIDEO CAMERA INCE-POWER-3 300K PIXEL	6-88-M56AC-610	(OPTION)
14	DRS VIDEO CAMERA INCE-DYK50-0-50G 13M	88-M55GC-610	(OPTION)
15	ANTENNA WLAN DUAL BAND PIFA 47MM BLACK	6-23-7M54G-011	
16	HINGE (CR) M540G	6-33-M54GI-013	
17	WIRE CABLE FOR CCD TO M/B M540N	6-43-M54N0-020	
18	M540G (LOGO/STYLE-NOTE)	6-45-M54N0-020	
19	WIRE CABLE FOR POWER BATT TO M/B M540N	6-43-M54N0-010	
20	INVERTER MODULE (CPS) V1.4 M550G	6-76-M55GR-014	
21	LCD BACK COVER MODULE M540G	6-39-M54GI-004-1	
22	SHIELDING FOR INVERTOR M540J	6-47-M54JS-030	
23	SHIELDING (27*20*0.15) FOR M540G	6-40-00150-270	

LCD (M545J)

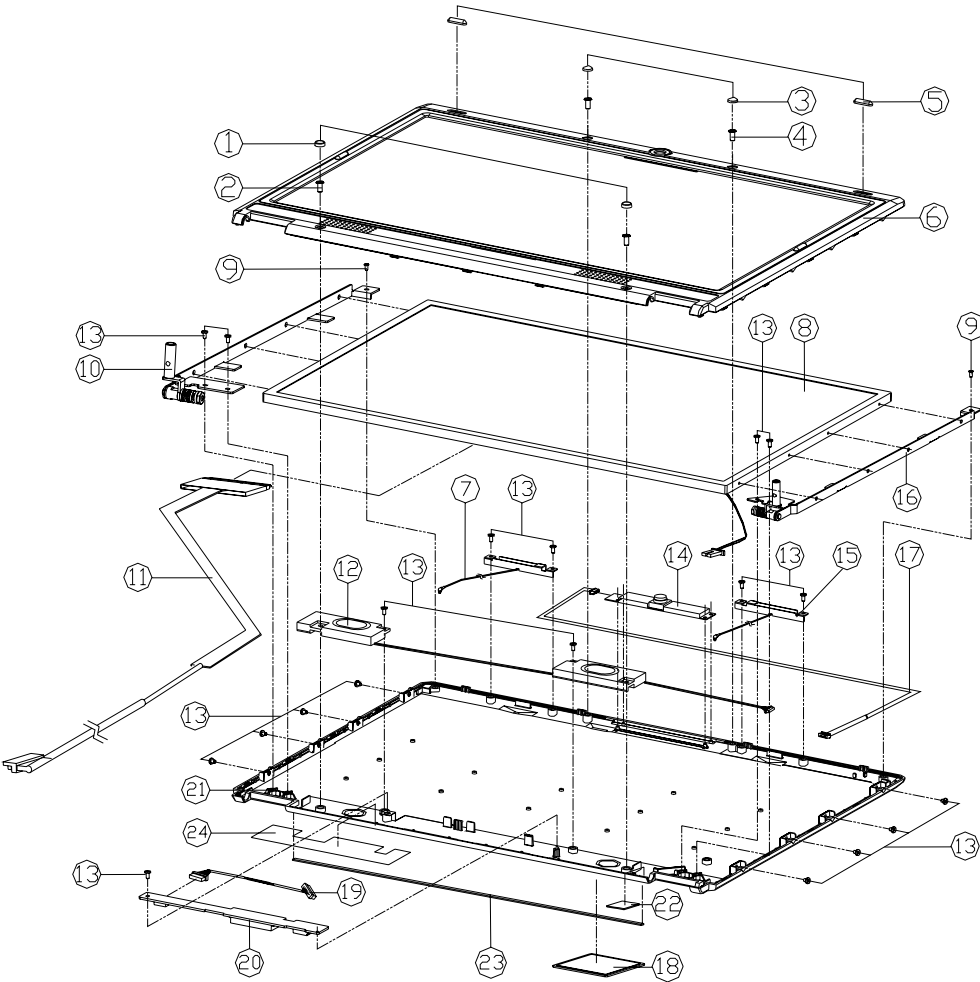


Figure A - 10  
LCD (M545J)

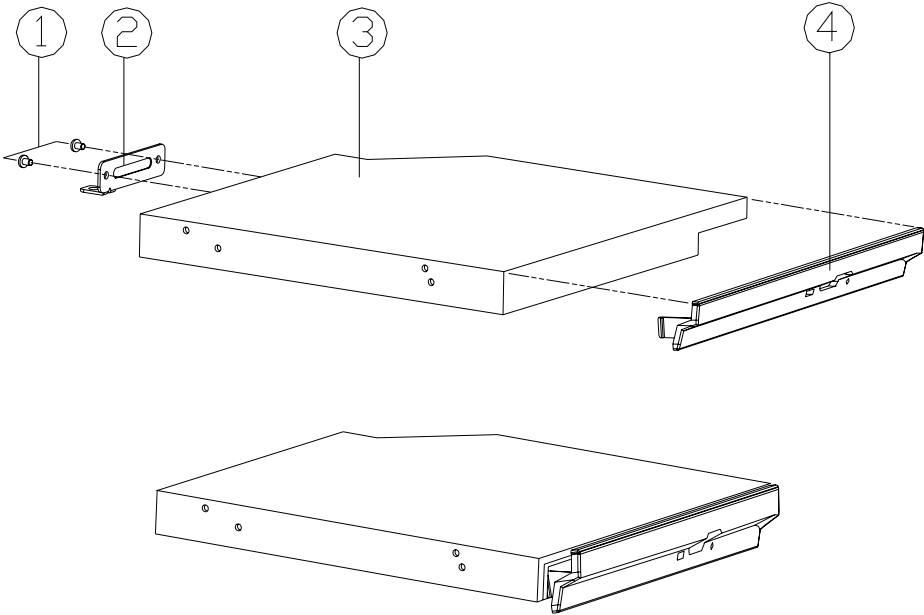
ITEM	PART NAME	PART NO	REMARK
1	RUBBER FOR LCD FRONT COVER (CIRCLE) (REF) M54	6-47-M54G1-030	
2	SCREW M2.5xSL K1 BK/Z ICT NY	6-35-B6125-5RA	
3	RUBBER FOR LCD FRONT COVER (CIRCLE) (REF) M54	6-47-M54G1-041	
4	SCREW M2.5xSL 1 BZ ICT	6-35-C6120-5R0	
5	RUBBER FOR LCD FRONT COVER (ELLIPSE) M54G	6-47-M54G1-052	
6	LCD FRONT COVER MODULE M540G (REF)	6-39-M54G1-015-1	
7	ANTENNA BLUETOOTH DUAL BAND PIFA 630MM GRN	6-23-7M54G-022	<OPTION>
8	LCD 14" TFT AU BAREVIEW V8 WGA 5.7MM	6-50-JC257-G00	FOR AU
8	LCD 14" TFT AU BAREVIEW V8 WGA 5.7MM	6-50-JC257-G01	FOR AU
8	LCD 14" TFT SAMSUNG LINEAR V8 WGA 5.7MM	50-JC255-M00	FOR SAMSUNG
8	OPTIMIZED HVA LCD TYPE WGA 1.6MM 14.5" LCD 15.5"	6-50-JC257-C01	FOR CPT
9	SCREW M2xSL 1 NIKKID4.5 T+0.8D (REF)	6-35-C1120-2R0	
10	HINGE (L) M540G (REF)	6-33-M54G1-024	
11	CORONA CABLE FOR ANTENNA WGA 15MM (REF)	6-43-M54N1-010	
12	SPEAKER WITH CABLE 25X25MM BT 15W 4P 4G	6-23-SM54N-011	
13	SCREW M2xSL 1 NIKT NY (REF) (SMT) (SMT) (SMT)	6-35-C1120-3RB	
14	CMOS VIDEO CAMERA 0.2MP-PIR30-3 300K PIXEL	6-88-M56AC-610	<OPTION>
14	CMOS CAMERA 1.3M RESOLUTION USB2.0 SERIEX	6-88-M66NC-490	<OPTION>
15	ANTENNA WLAN DUAL BAND PIFA 470MM BLACK	6-23-7M54G-011	
16	HINGE (R) M540G (REF)	6-33-M54G1-014	
17	WIRE CABLE FOR CCD TO M/B M540N (REF)	6-43-M54N0-022	
18	M540G (REF) LOGO (STYLE-NOTE)	6-45-M54G1-020	
19	WIRE CABLE FOR INVERTER BOARD TO M/B M540N (REF)	6-43-M54N0-012	
20	INVERTER MODULE M550G (EPS)	6-76-M55GR-014	
21	LCD BACK COVER MODULE M545G (REF)	6-39-M54N1-011-1	
22	(27x20x0.15x1) FOR M540G (REF)	6-40-00150-270	
23	LCD BACK COVER COB (BAREVIEW) M545G (REF)	6-40-M5451-010	
23	LCD BACK COVER COB (BAREVIEW) M545G (REF)	6-40-M5451-010-1	
24	SHIELDING FOR INVERTOR M540J (REF)	6-47-M54JS-030	

A.Part Lists

Part Lists

Combo Drive (M540J)

Figure A - 11  
Combo Drive  
(M540J)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
2	CD-RDM LOCK BRACKET,SECC M550G 無鉛	6-33-M55GZ-011	
3	CD-RW/DVD 5 1/4" 24X 12.7MM TS-L462C TOSHI	6-85-907PX-T00	
4	COMBO BEZEL MODULE M540V 無鉛	6-42-M54VX-100	

# Appendix B:Schematic Diagrams

This appendix has circuit diagrams of the *M540J/M545J/M550J/M555J* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

*Table B - 1*  
**Schematic  
Diagrams**

Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>MCP51 SATA / IDE - Page B - 17</i>	<i>SYSYEM POWER, BRIDGE BATT - Page B - 32</i>
<i>ATHLON 64 1/4 - Page B - 3</i>	<i>MCP51 AUDIO / USB / MISC - Page B - 18</i>	<i>+2.6V, +1.3V, +1.2V - Page B - 33</i>
<i>ATHLON 64 2/4 - Page B - 4</i>	<i>MCP51 RGMII - Page B - 19</i>	<i>+VCORE - Page B - 34</i>
<i>ATHLON 64 3/4 - Page B - 5</i>	<i>MCP51 PWR / GND - Page B - 20</i>	<i>+1.2VS_ADJ, +1.0V_ADJ - Page B - 35</i>
<i>ATHLON 64 4/4 - Page B - 6</i>	<i>MINI PCI, USB2.0*2 - Page B - 21</i>	<i>+VDD3, +VDD5, +VDD12 - Page B - 36</i>
<i>DDR SO-DIMM - Page B - 7</i>	<i>SIO, SATA HDD, CD-ROM - Page B - 22</i>	<i>D/D BD (RGB &amp; TV OUT MUXES) - Page B - 37</i>
<i>DDR TERMINATION - Page B - 8</i>	<i>LAN RTL8201CL - Page B - 23</i>	<i>D/D BD (CRT, S-VIDEO, RJ-11) - Page B - 38</i>
<i>PANEL, INVERTER, FAN - Page B - 9</i>	<i>FWH, TOUCHPAD, LED - Page B - 24</i>	<i>D/D BD (CHARGER, DC IN) - Page B - 39</i>
<i>C15 HT CPU - Page B - 10</i>	<i>IEEE 1394 VT6307S - Page B - 25</i>	<i>AUDIO BD (PHONE JACK, USB) - Page B - 40</i>
<i>C51 HT MCP - Page B - 11</i>	<i>H8/2111 - Page B - 26</i>	<i>HOT KEY BD (HOT KEY, LED) - Page B - 41</i>
<i>C51 PCI EXPRESS - Page B - 12</i>	<i>MDC, USB BT, PWRGD, DDB CON - Page B - 27</i>	<i>LED BOARD - Page B - 42</i>
<i>C51 DAC / IFP - Page B - 13</i>	<i>AZALIA CODEC ALC880 - Page B - 28</i>	<i>CLICK BOARD - Page B - 43</i>
<i>C51 PWR / GND - DECOUPLING - Page B - 14</i>	<i>AUDIO AMP, USB2.0* 2 - Page B - 29</i>	<i>RJ-45 BOARD - Page B - 44</i>
<i>MCP51 HT - Page B - 15</i>	<i>PCMCIA ENE CB714B - Page B - 30</i>	<i>USB DONGLE BOARD - Page B - 45</i>
<i>MCP51 PCI - Page B - 16</i>	<i>PCM SOCKET, 3-IN-1 SOCKET - Page B - 31</i>	



## Version Note

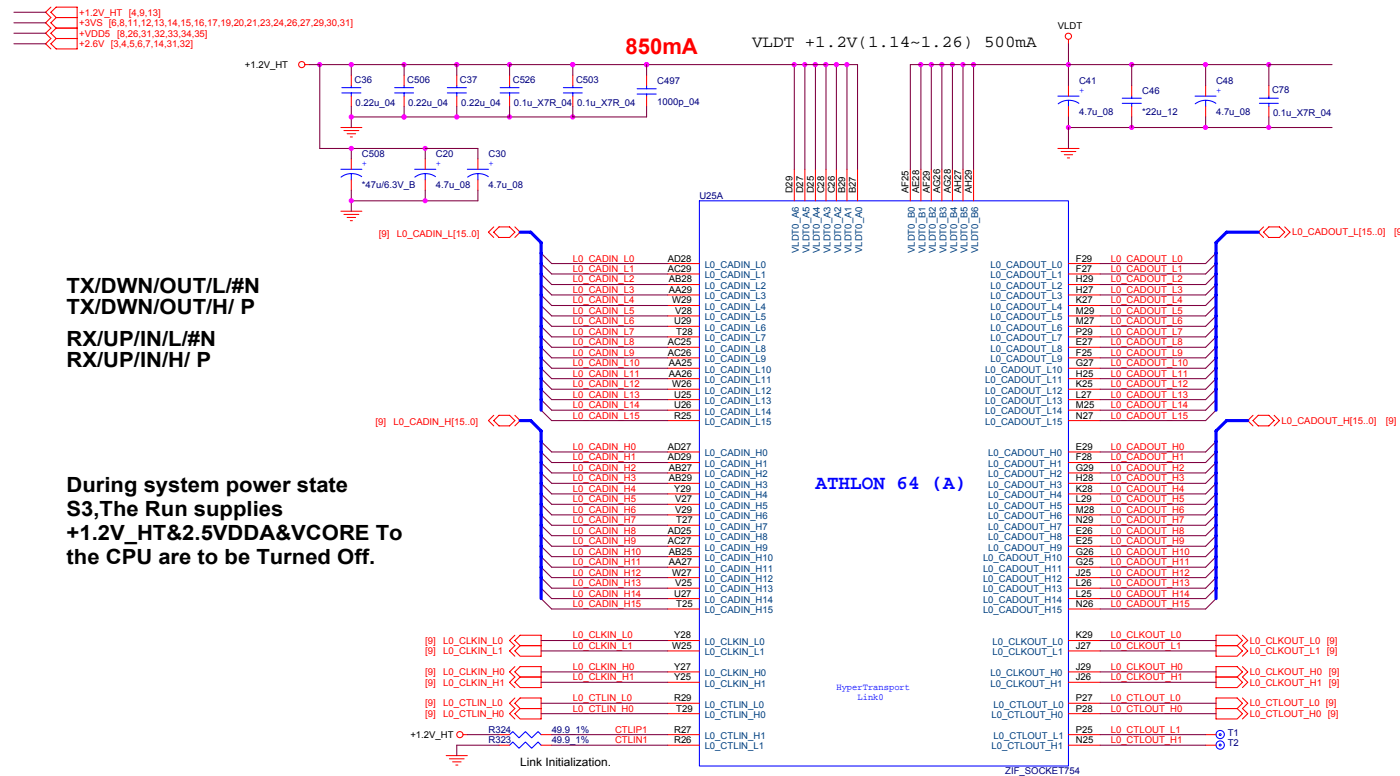
The schematic diagrams in this chapter are based upon version 6-71-M55J0-004. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).



**Sheet 1 of 44**  
**System Block**  
**Diagram**

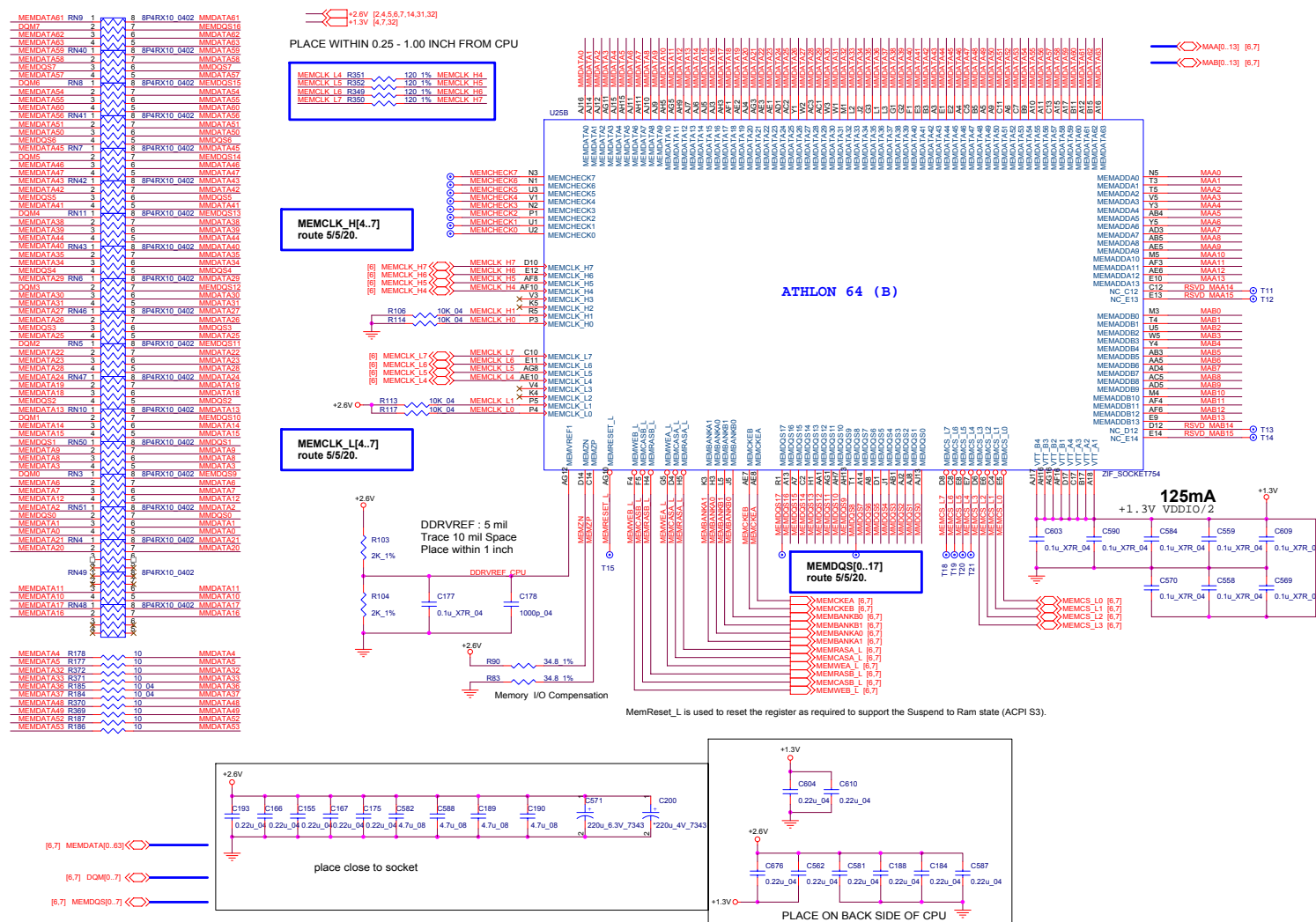


# ATHLON 64 1/4

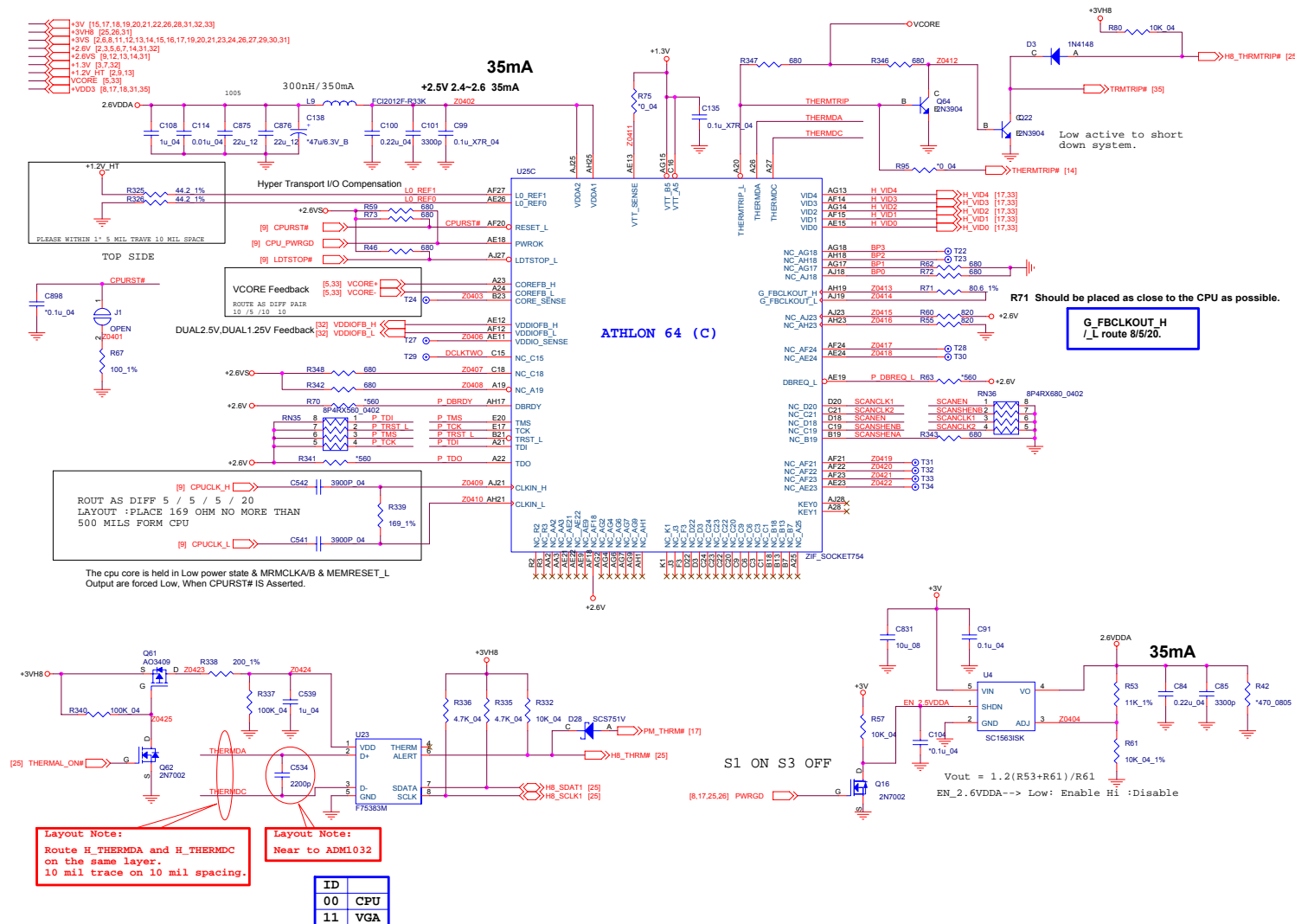


Sheet 2 of 44  
ATHLON 64 1/4

**B - 4 ATHLON 64 2/4**



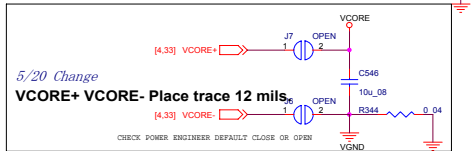
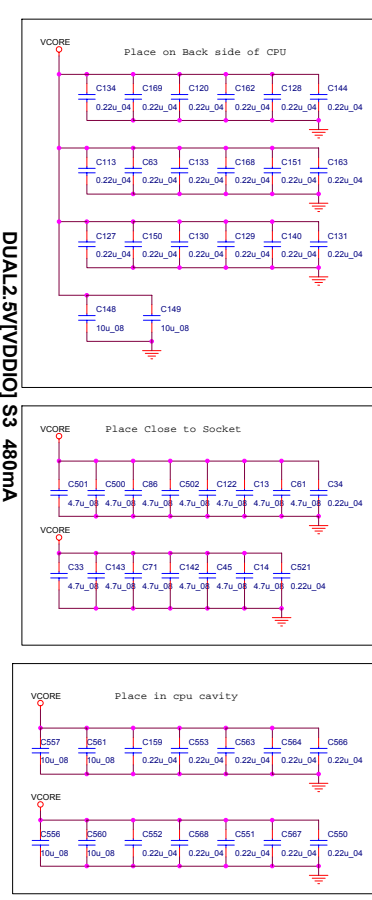
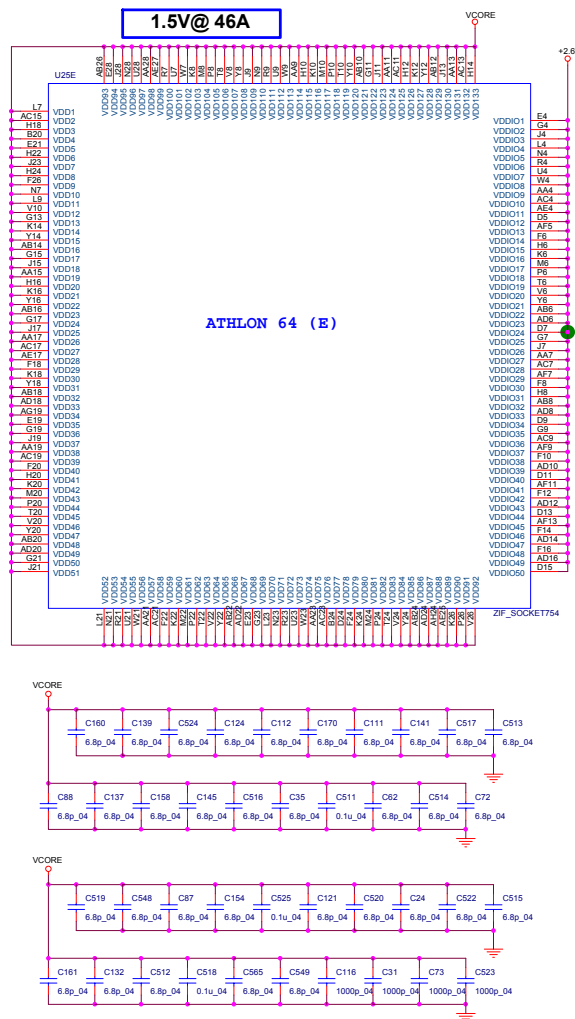
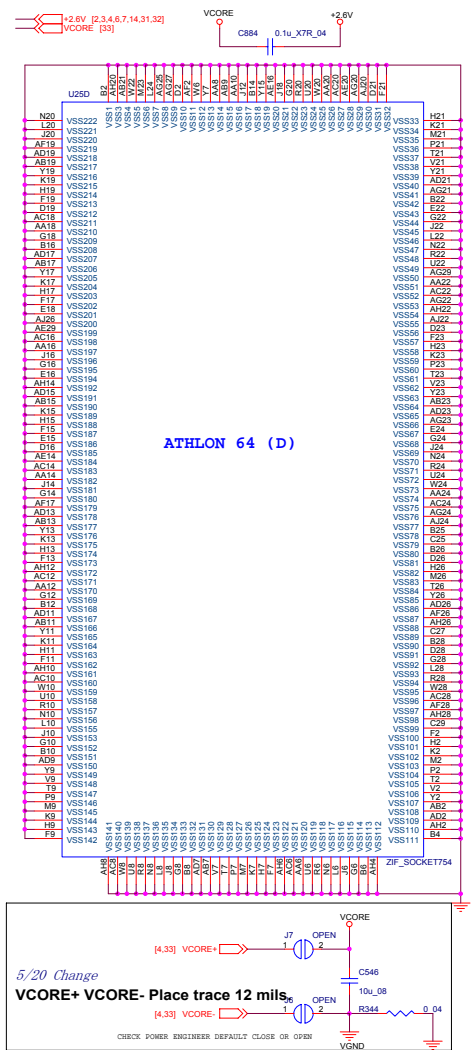
# ATHLON 64 3/4



Schematic Diagrams

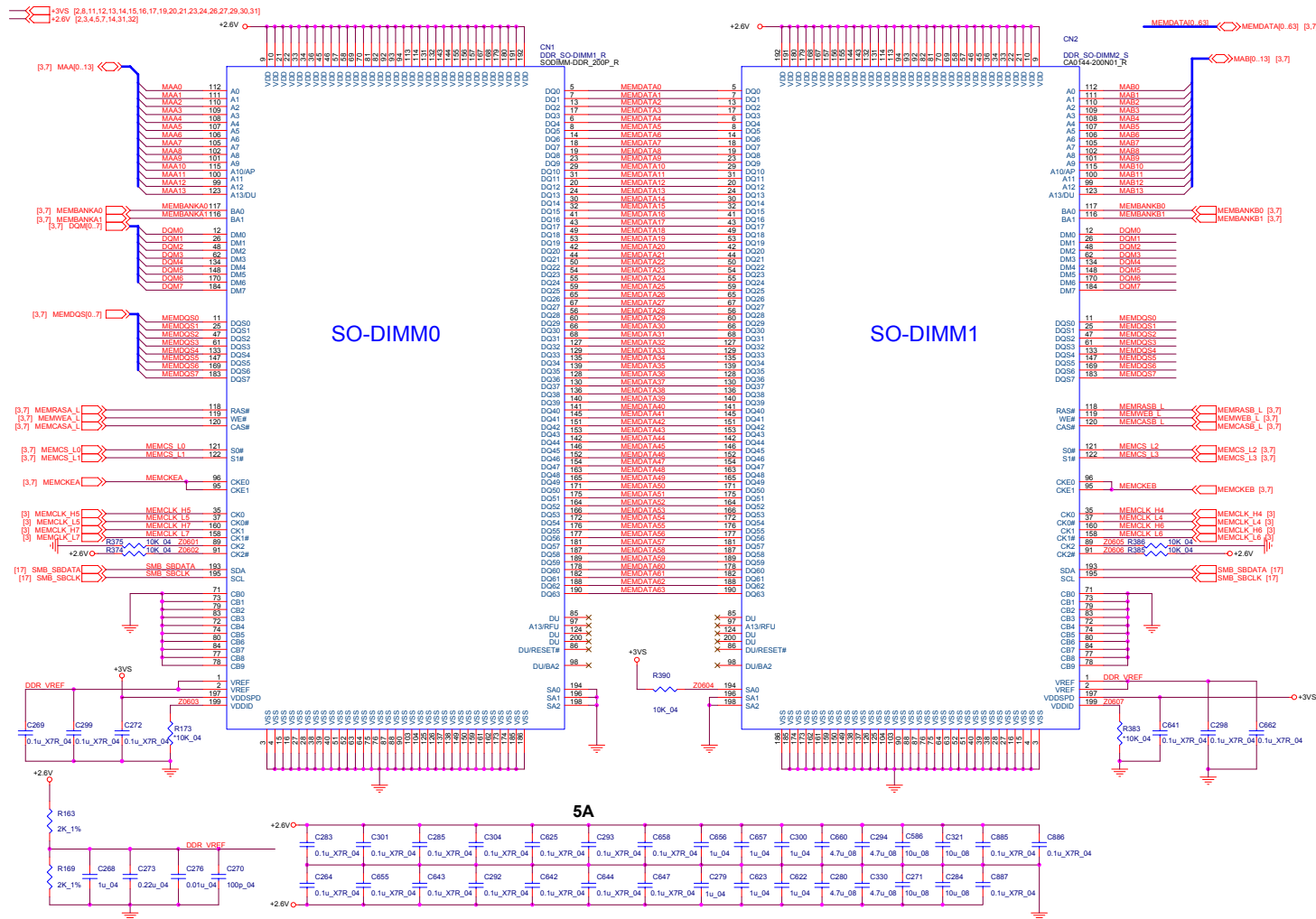
ATHLON 64 4/4

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ATHLON 64 4/4





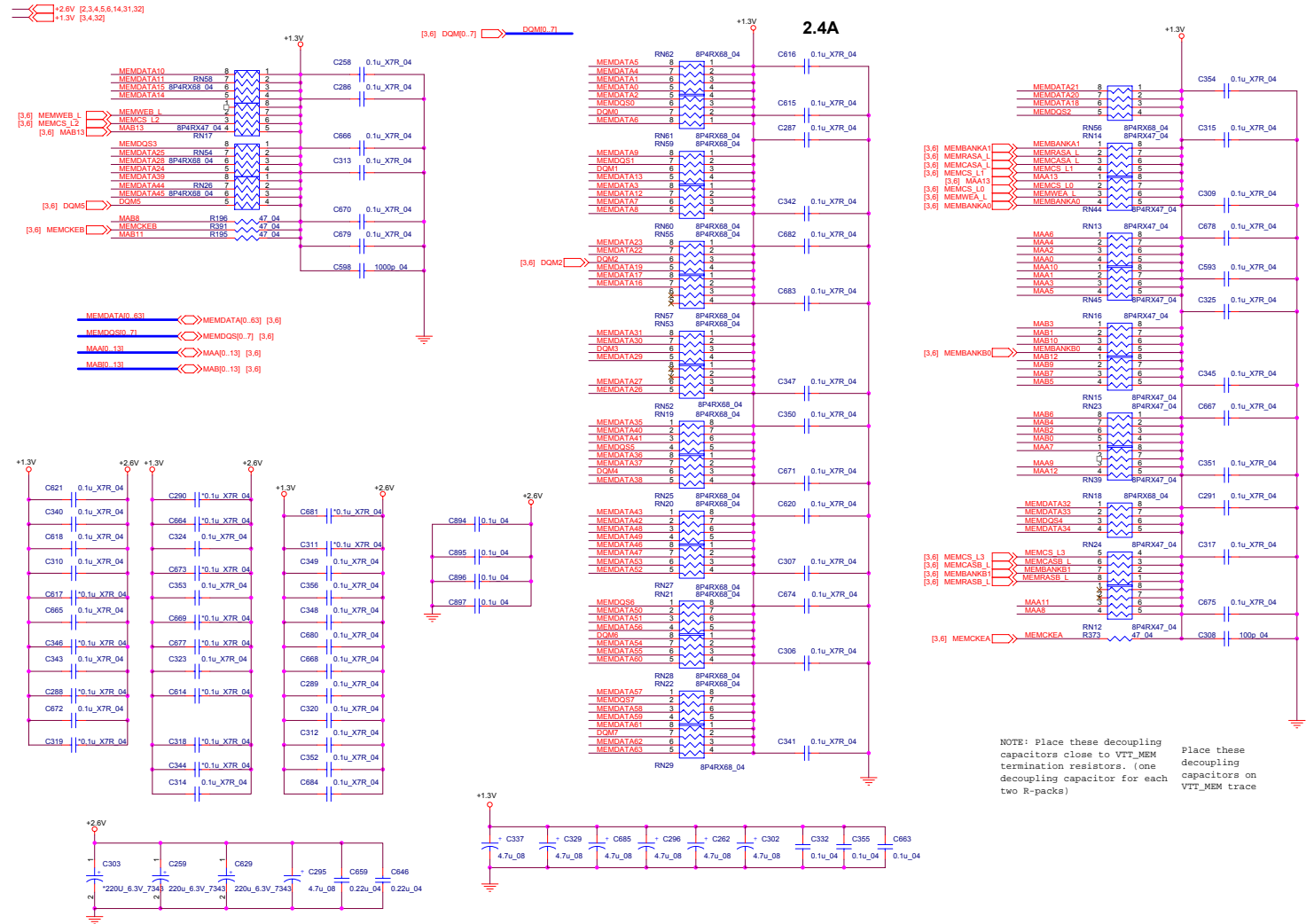
## DDR SO-DIMM



Schematic Diagrams

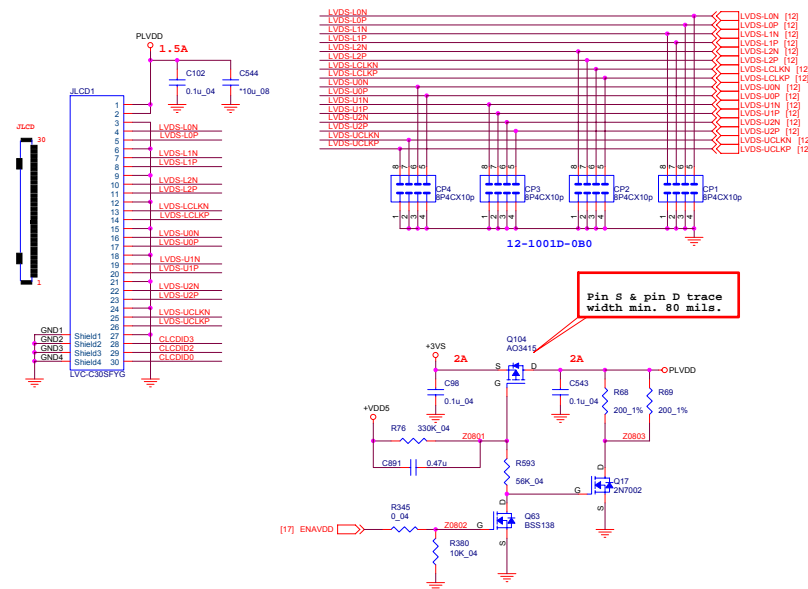
DDR TERMINATION

Sheet 7 of 44  
DDR  
TERMINATION

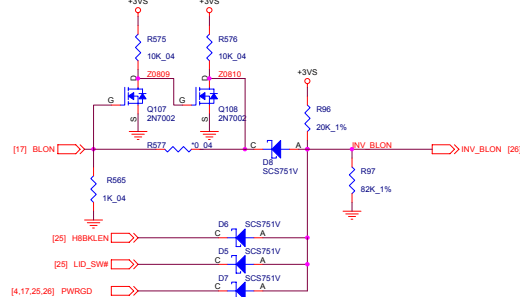


# PANEL, INVERTER, FAN

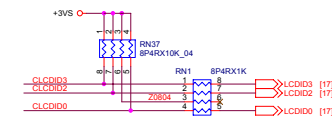
## PANEL



## INVERTER CONNECTOR

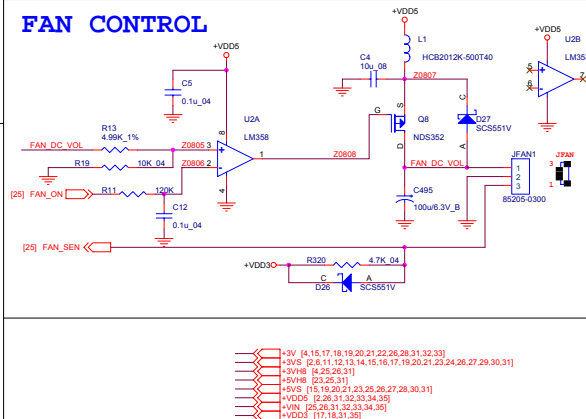


## PANLE ID SELECTOR



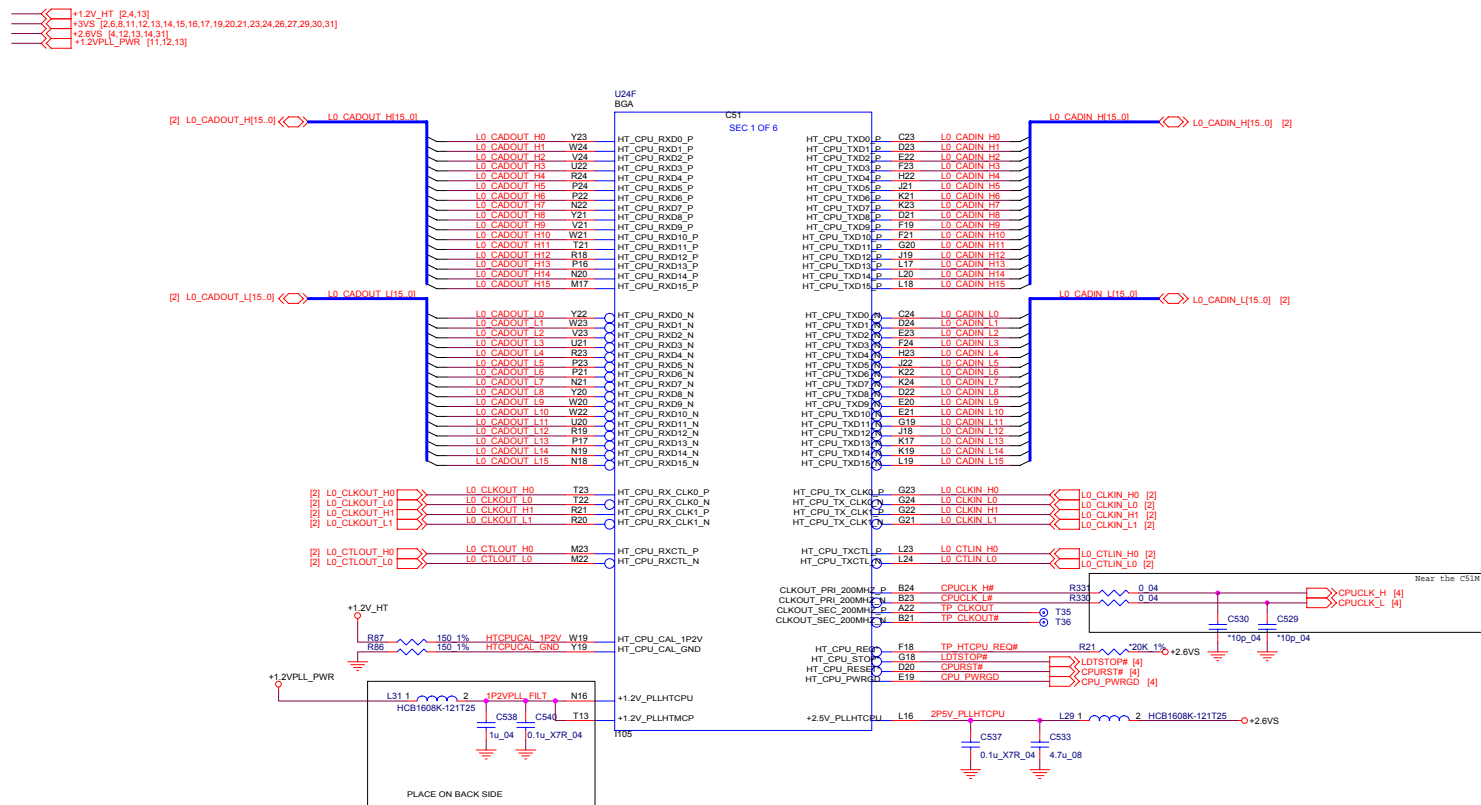
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		JLCD-30(GPIO62)	Coaxial Cable	JLCD-28(GPIO61)
TYPE	PANEL MODEL	JLCD-30(GPIO62)	Coaxial Cable	JLCD-28(GPIO61)
15" XGA	AU B150XG01	0 ( GND )	0 ( GND )	0 ( GND )
15" XGA	CPT CLAA150XH01	0 ( GND )	0 ( GND )	0 ( GND )
15" SXGA+	AU B150PG03	1 ( NC )	0 ( GND )	0 ( GND )
15" SXGA+	CPT CLAA150PB03	1 ( NC )	0 ( GND )	0 ( GND )
14" WXGA	Hydis HT140WXL-100	0 ( GND )	1 ( NC )	0 ( GND )
14" WXGA	AU B140BW01	0 ( GND )	1 ( NC )	0 ( GND )
14" WXGA	SAMSUNG LTN140WL-L01	0 ( GND )	1 ( NC )	0 ( GND )

## FAN CONTROL



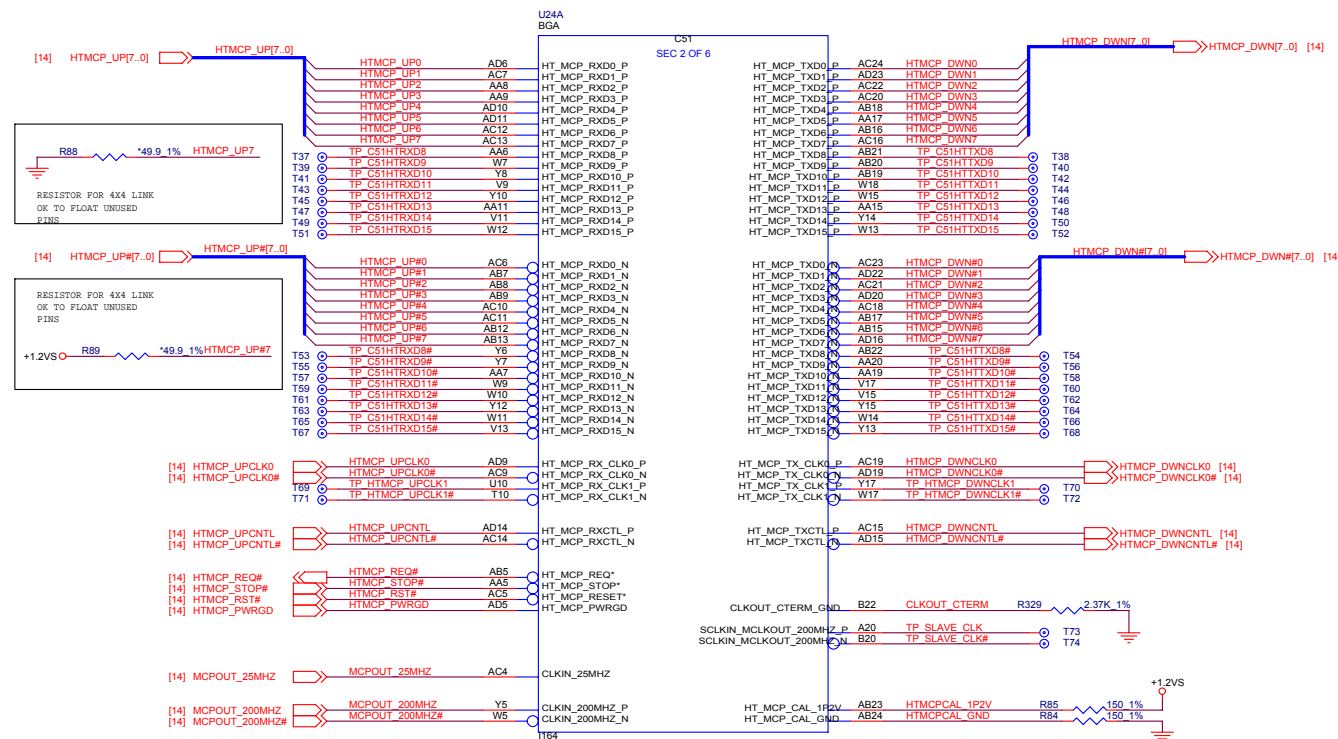
Sheet 8 of 44  
915GM 3/5

**Sheet 9 of 44**  
**C15 HT CPU**



## C51 HT MCP

—+1.2VS [13,14,19,32]



Sheet 10 of 44  
C51 HT MCP

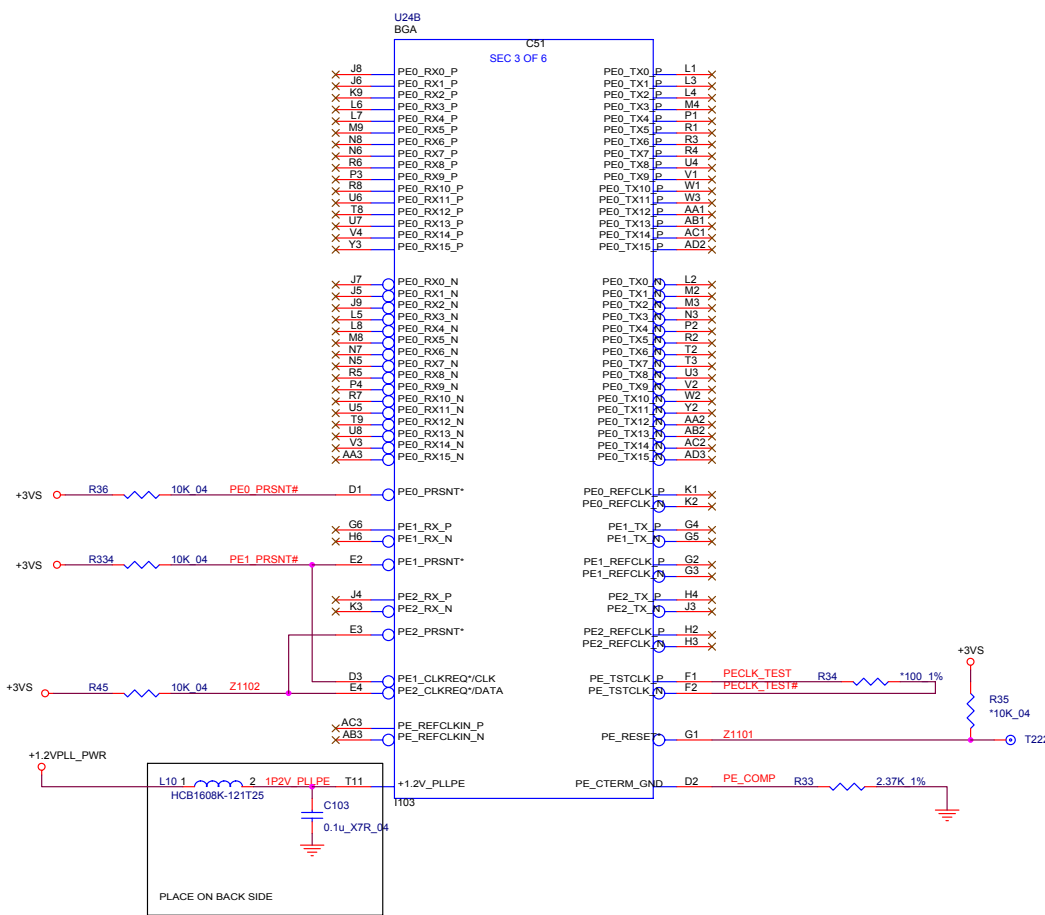


Schematic Diagrams

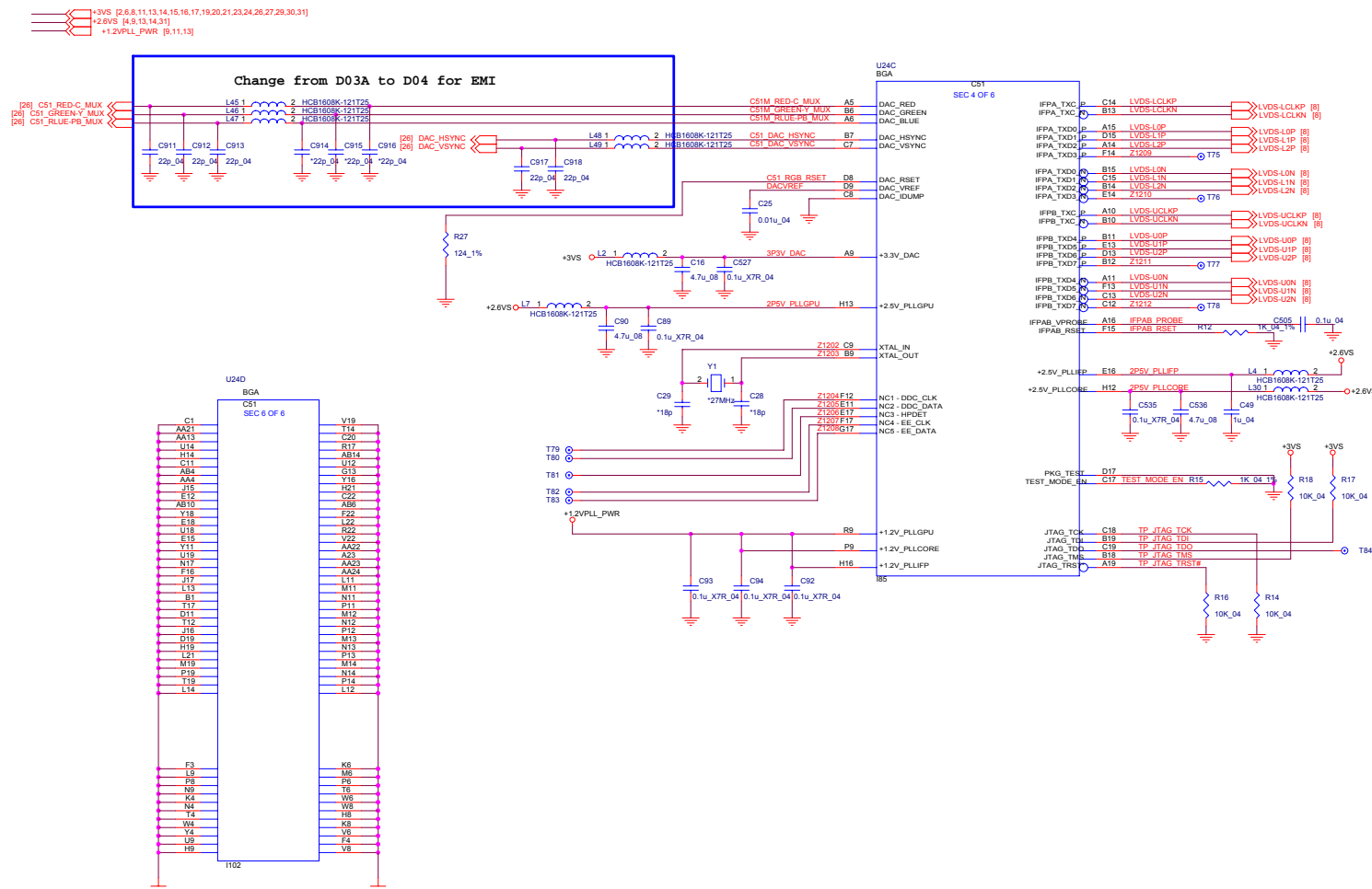
C51 PCI EXPRESS

+3VS [2,6,8,12,13,14,15,16,17,19,20,21,23,24,26,27,29,30,31]  
+1.2VPLL\_PWR [9,12,13]

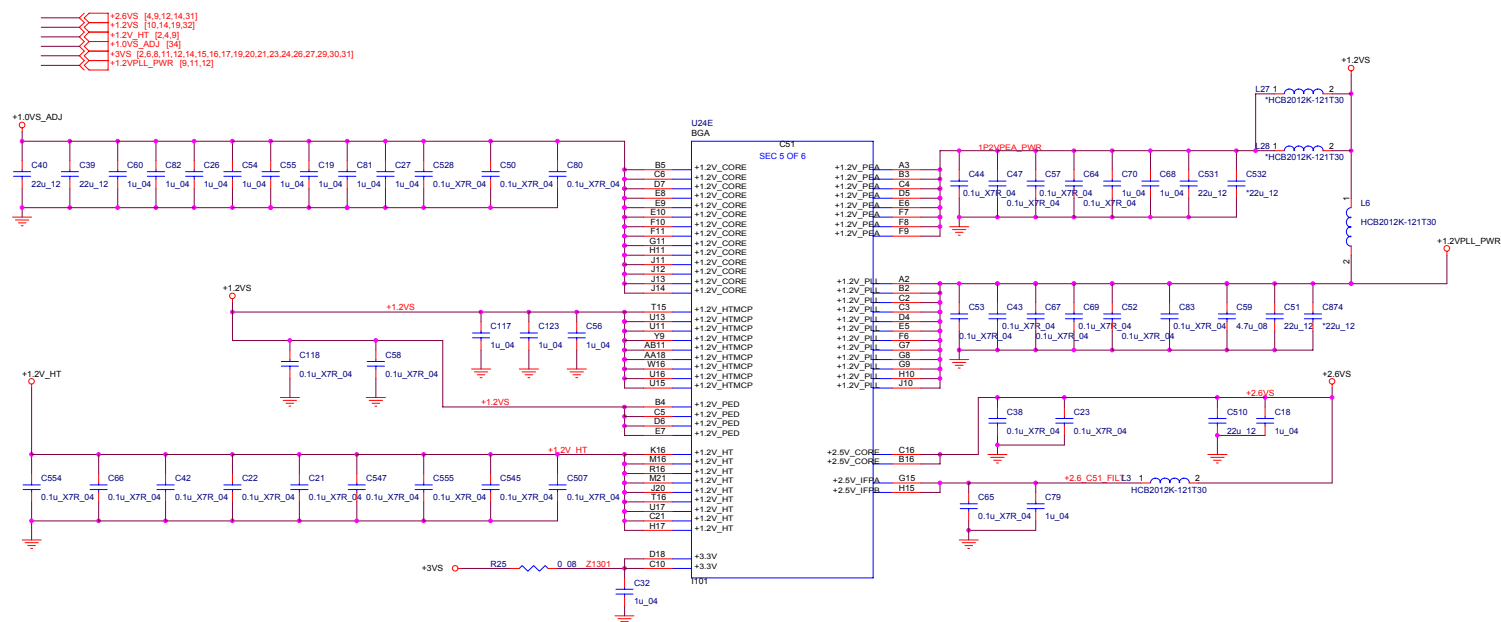
Sheet 11 of 44  
C51 PCI EXPRESS



**C51 DAC / IFP B - 13**

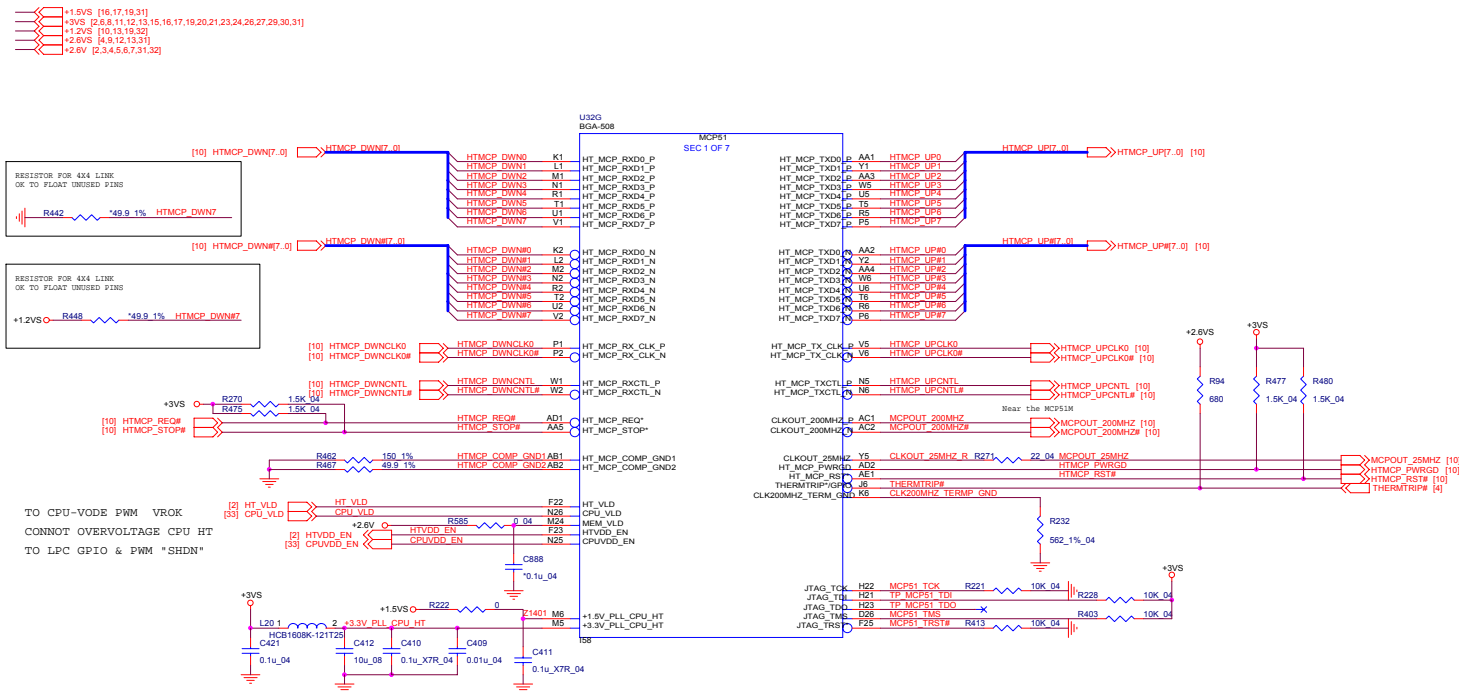


**Sheet 13 of 44**  
**C51 PWR / GND -**  
**DECOUPLING**



# MCP51 HT

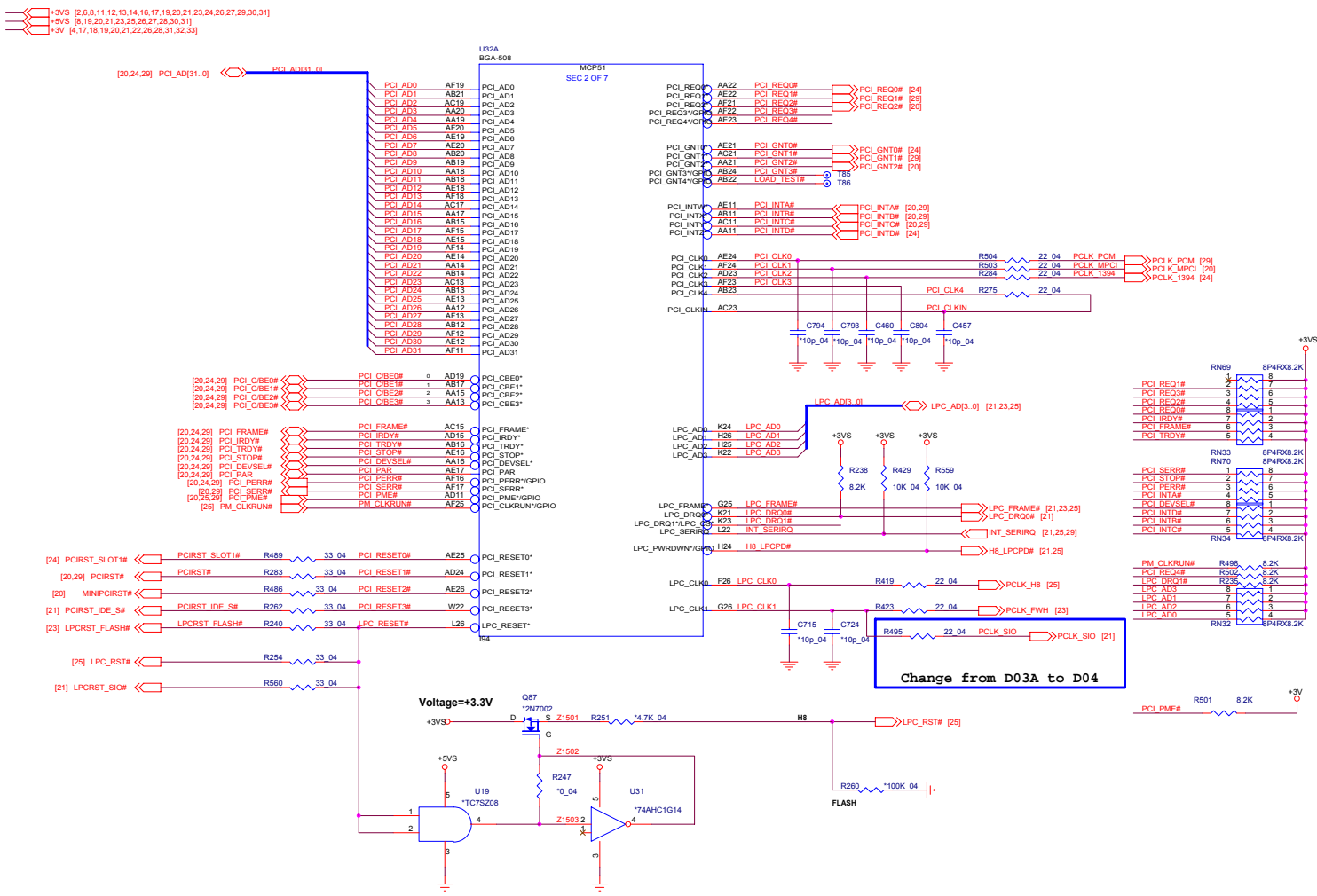
Sheet 14 of 44  
MCP51 HT



Schematic Diagrams

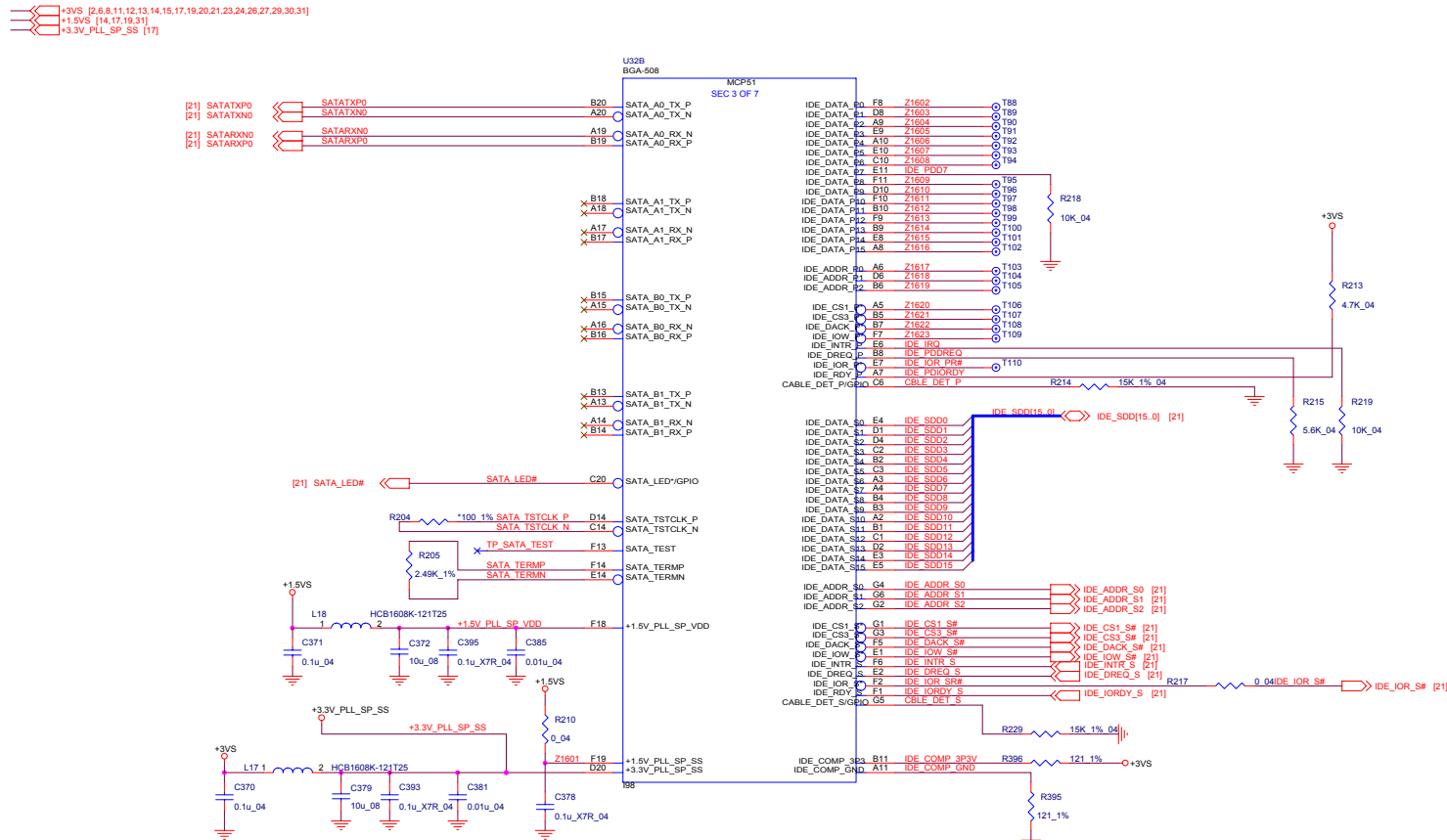
MCP51 PCI

Sheet 15 of 44  
MCP51 PCI





## MCP51 SATA / IDE



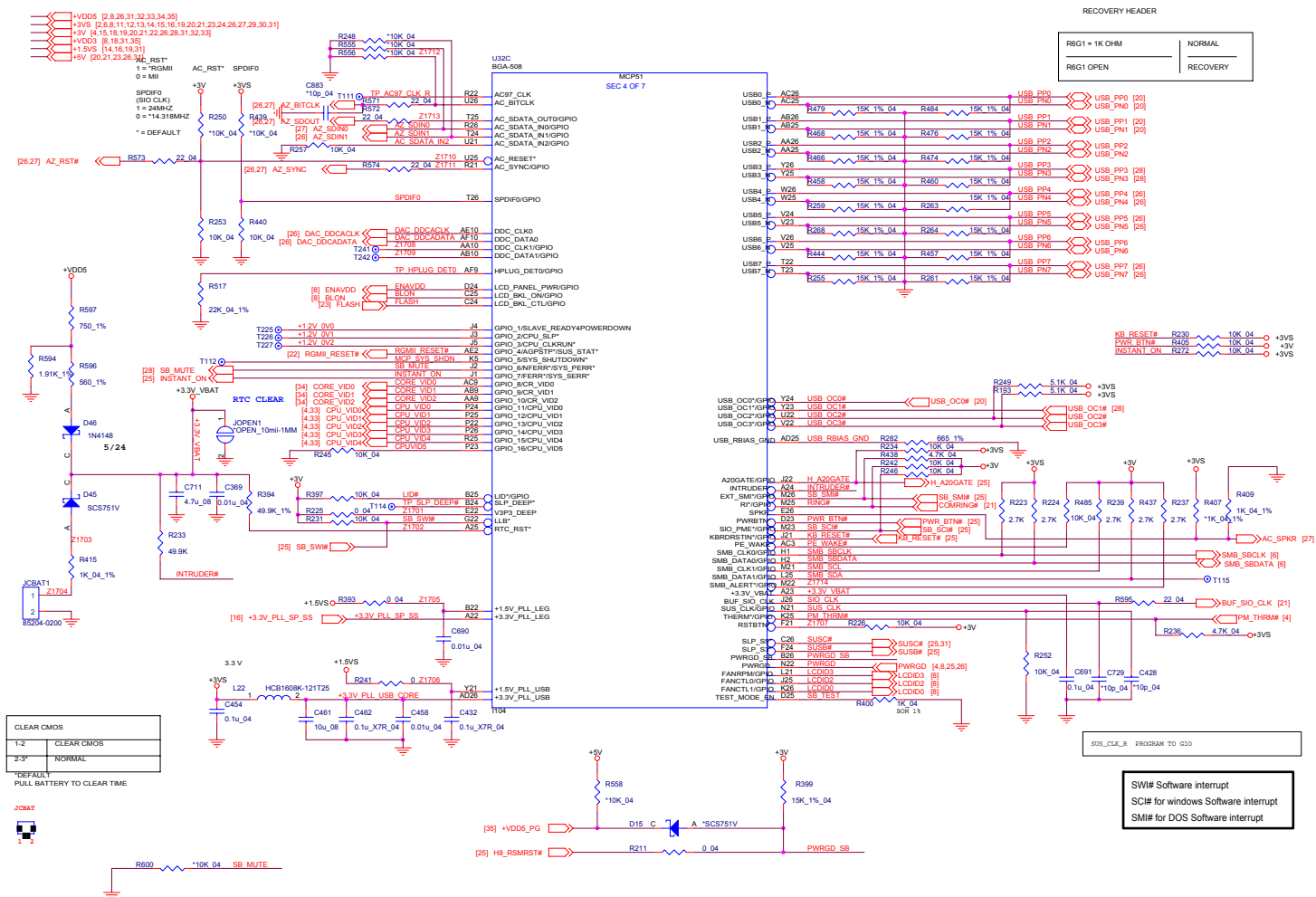
Sheet 16 of 44  
MCP51 SATA /IDE

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## MCP51 AUDIO / USB / MISC

## B.Schematic Diagrams

Sheet 17 of 44  
MCP51 AUDIO /  
USB / MISC

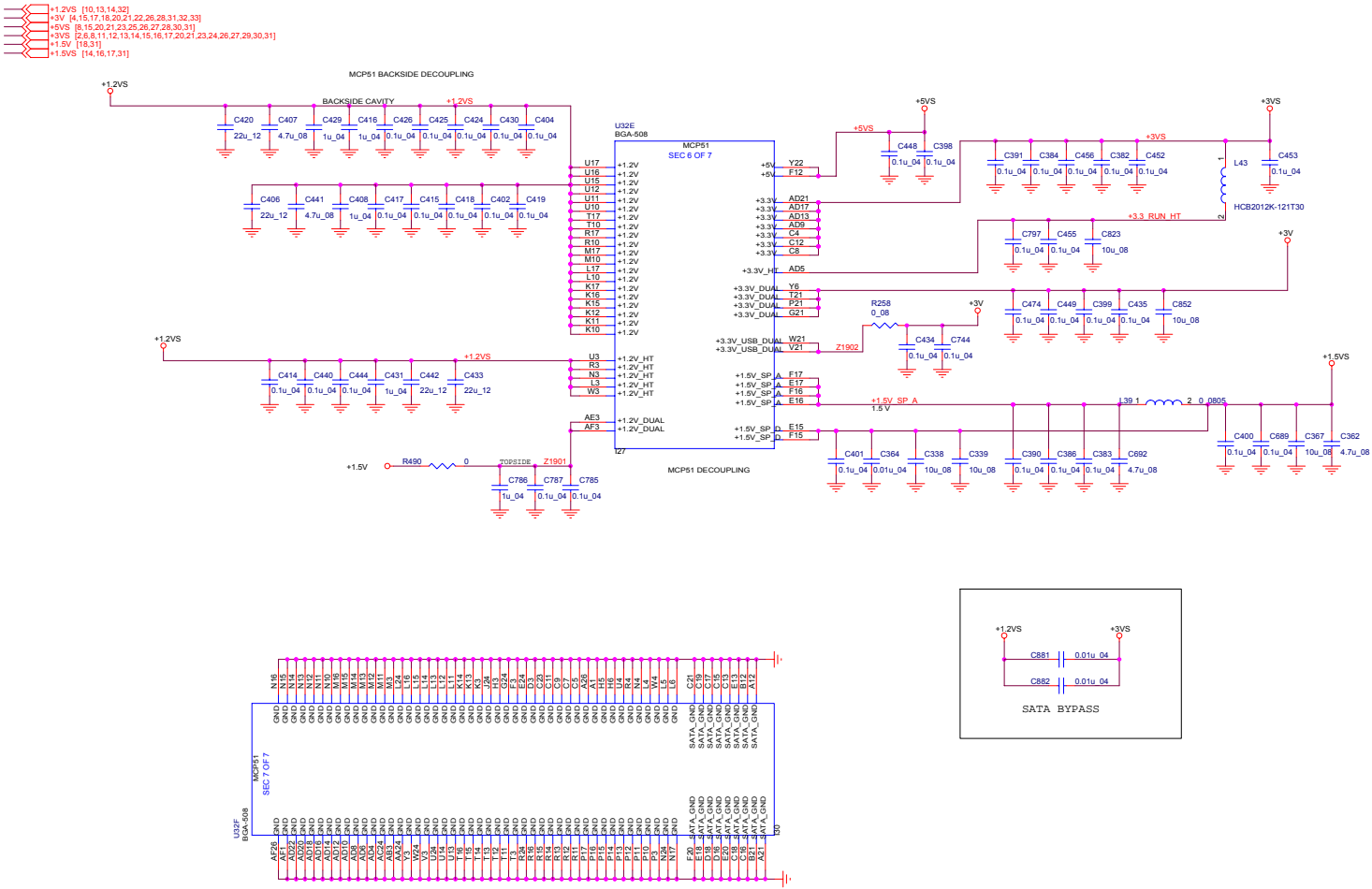




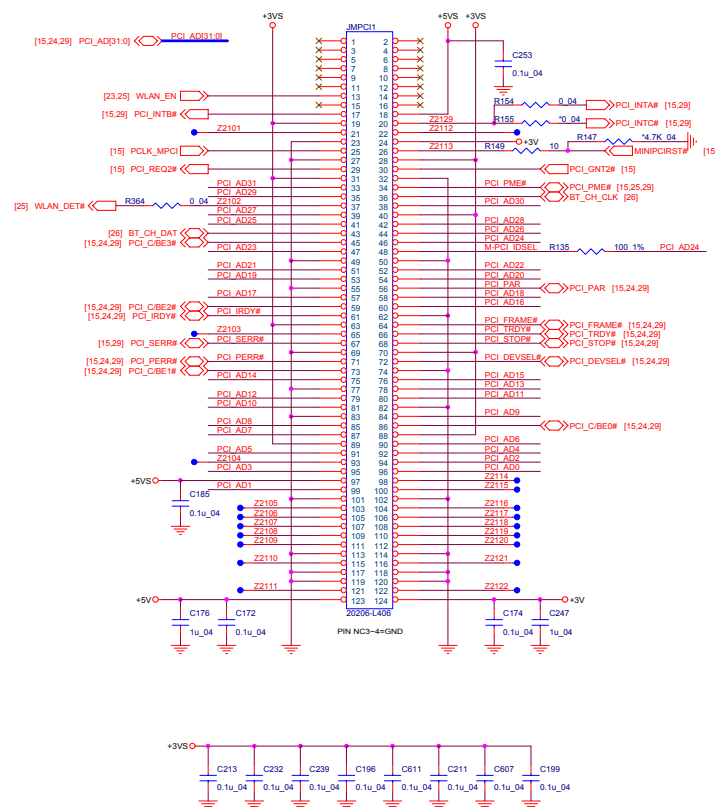
Schematic Diagrams

MCP51 PWR / GND

Sheet 19 of 44  
MCP51 PWR / GND



## MINI PCI



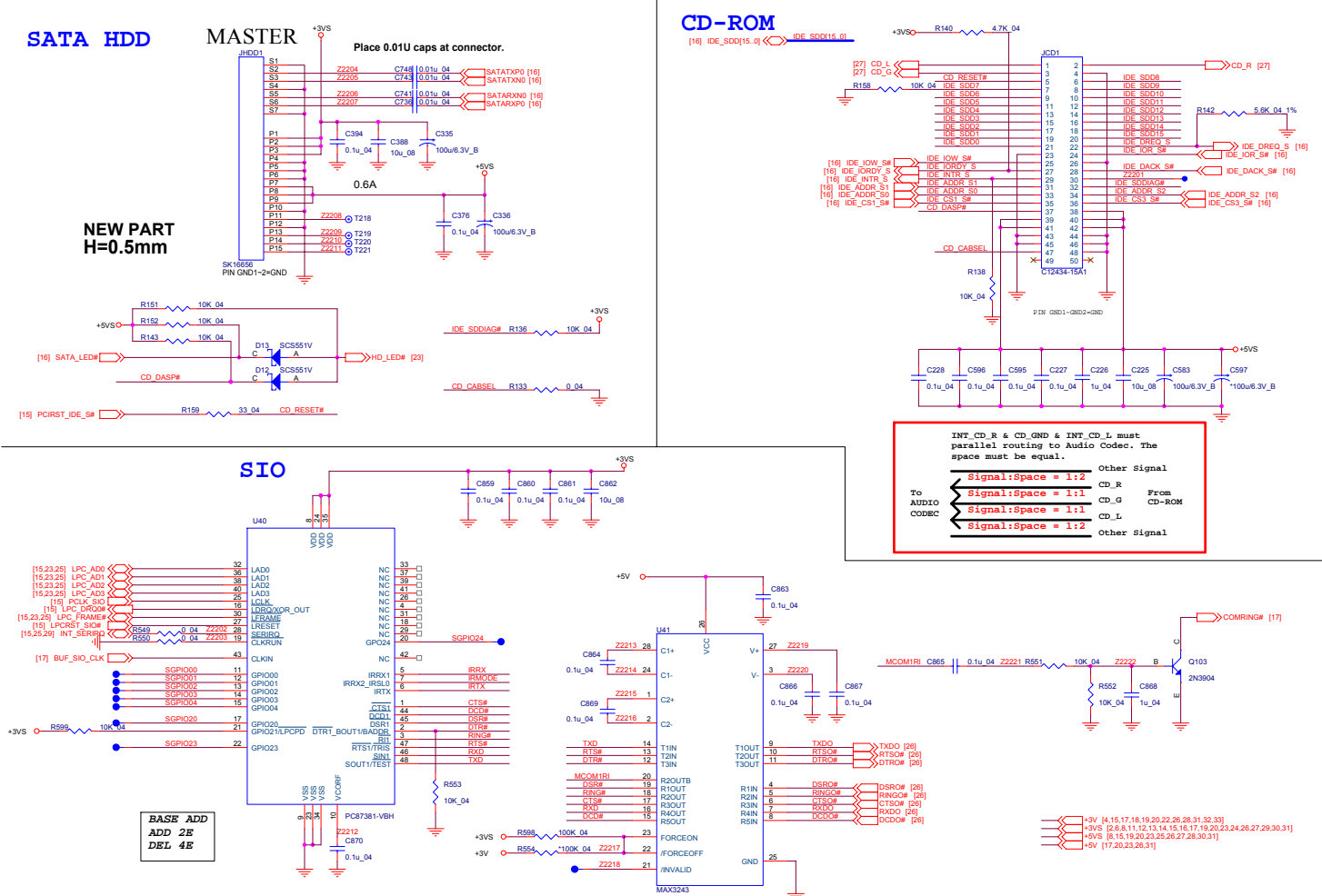
Sheet 20 of 44  
MINI PCI, USB2.0\*2



Schematic Diagrams

SIO, SATA HDD, CD-ROM

Sheet 21 of 44  
SIO, SATA HDD,  
CD-ROM



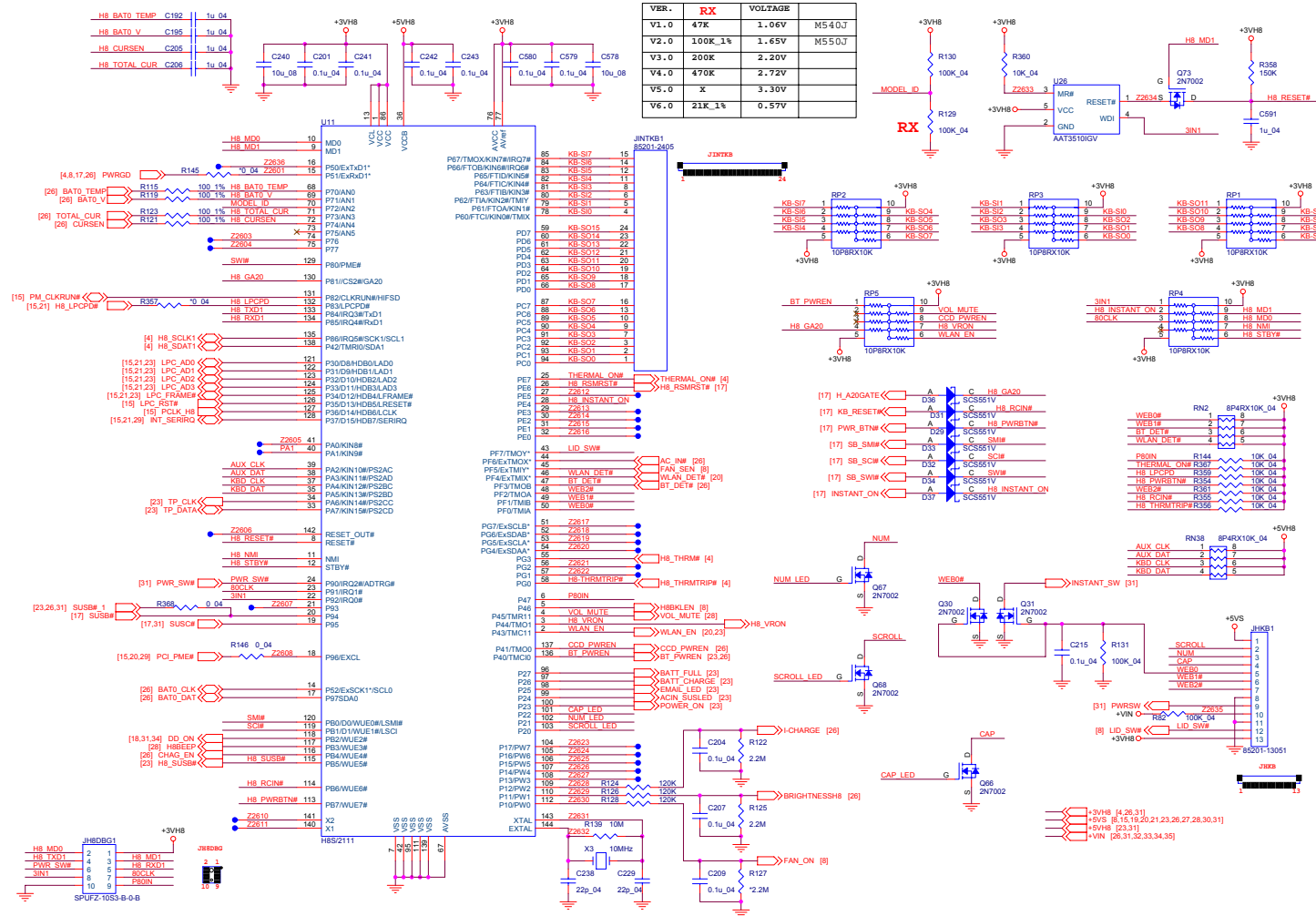




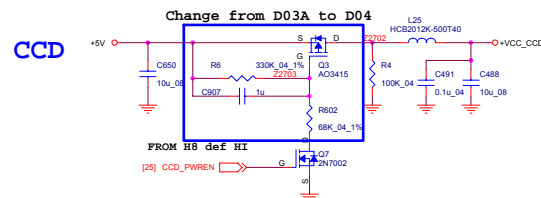
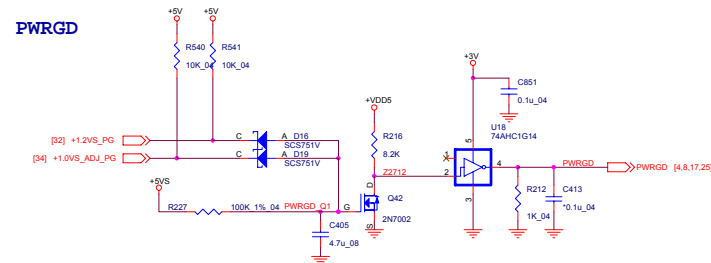


# H8/2111

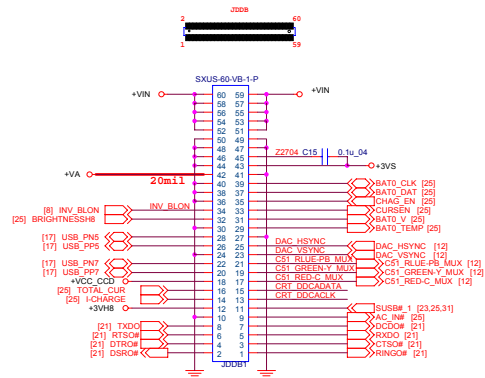
Sheet 25 of 44  
H8/2111



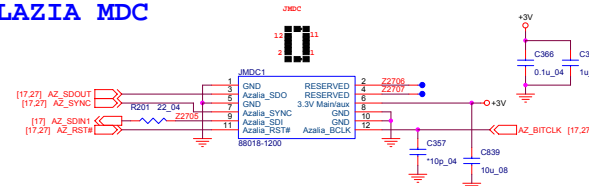
# MDC, USB BT, PWRGD, DDB CON



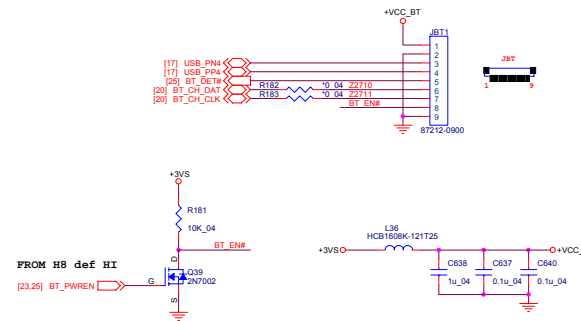
TO MULTI-FUNCTION BOARD



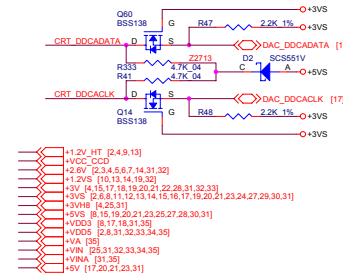
**ALAZIA MDC**



**USB BLUETOOTH**

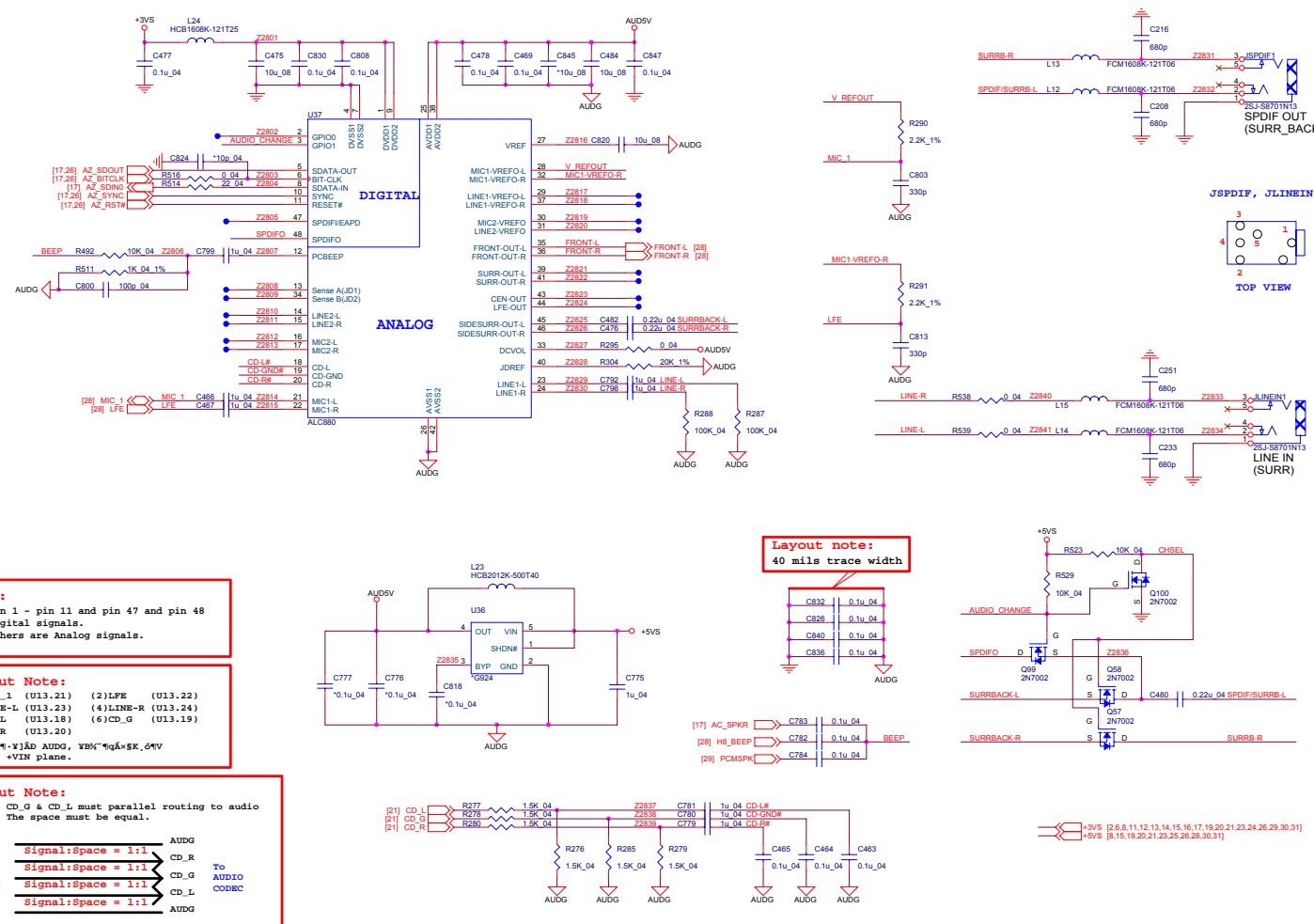


Sheet 26 of 44  
MDC, USB BT,  
PWRGD, DDB CON

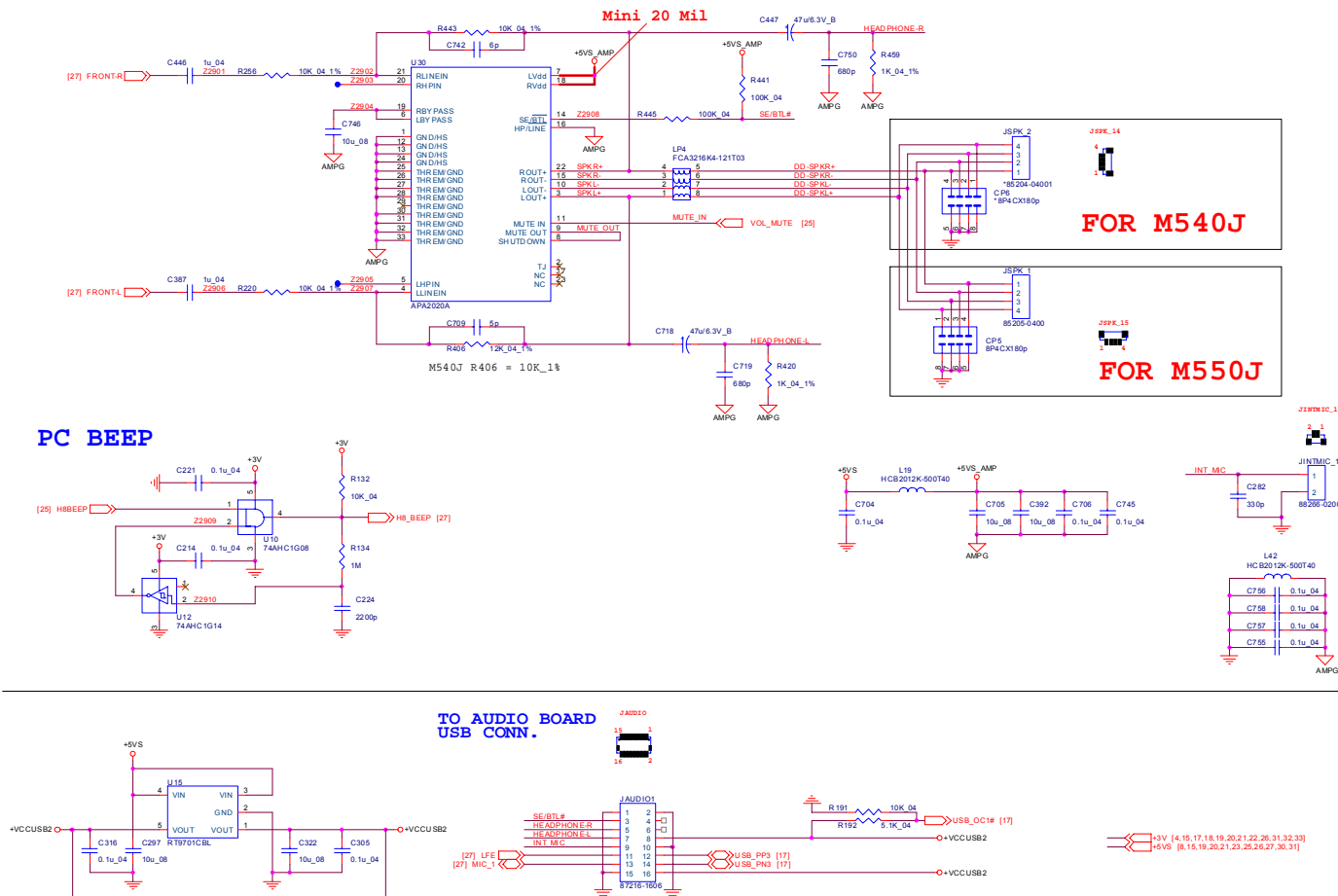




Sheet 27 of 44  
AZALIA CODEC  
ALC880



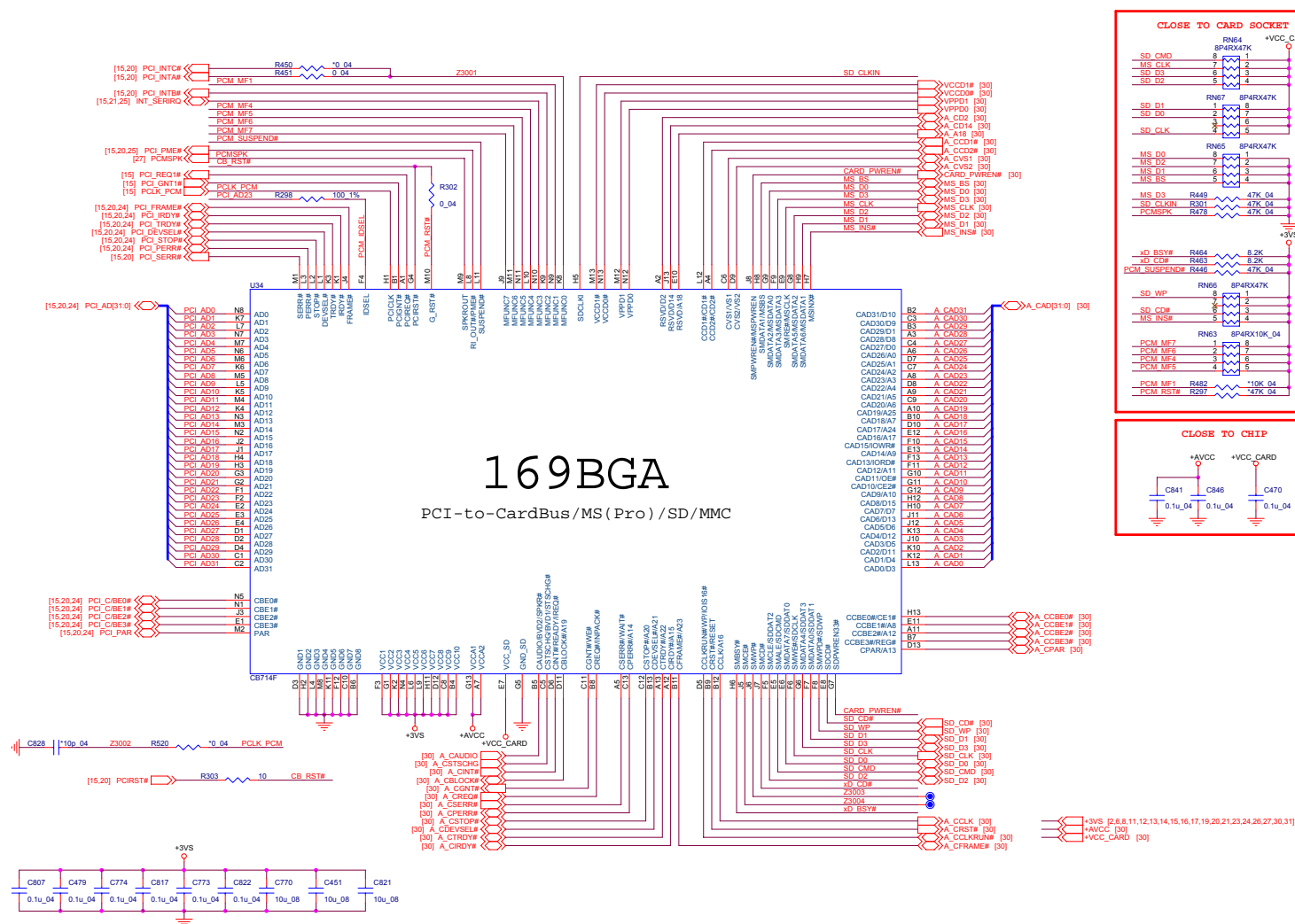
# AUDIO AMP, USB2.0\* 2



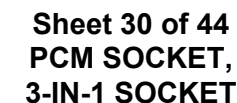
Sheet 28 of 44  
AUDIO AMP,  
USB2.0

## B.Schematic Diagrams

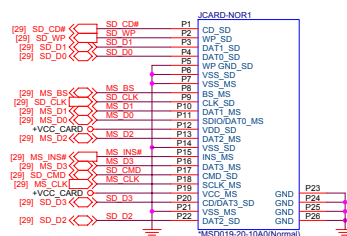
Sheet 29 of 44  
PCMCIA ENE  
CB714B



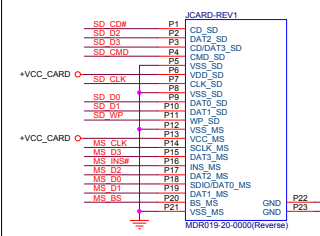
## CARDBUS SOCKET



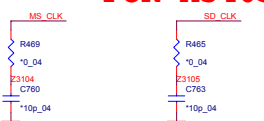
**FOR M540J**



FOR M550J

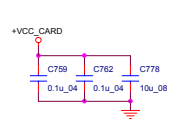


## FOR M540J



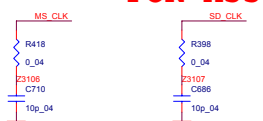
Close to MS socket

## FOR M540J



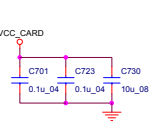
Close to SD socket

FOR M550J



Close to MS socket

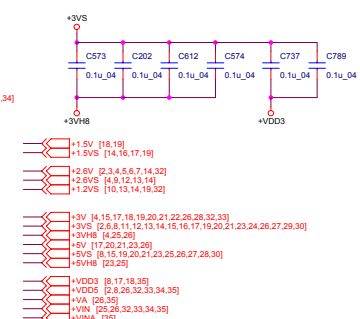
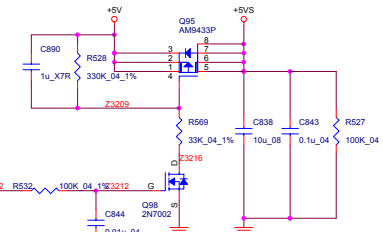
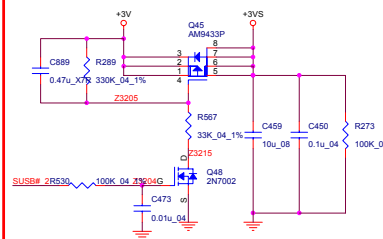
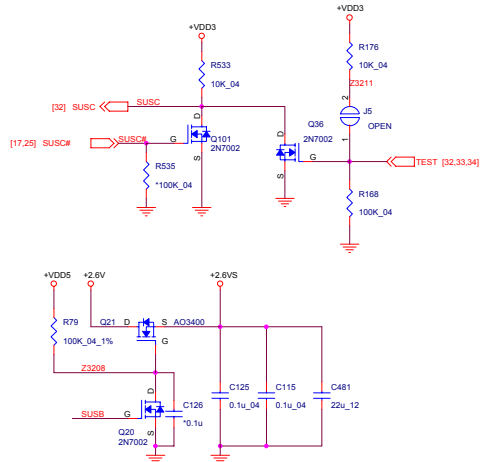
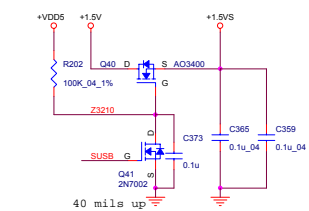
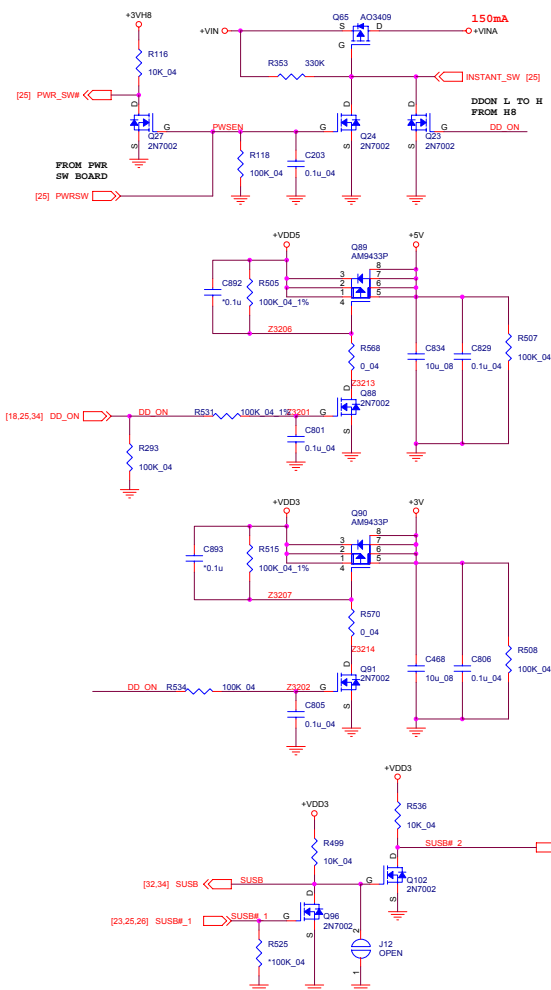
FOR M550J



Close to SD socket

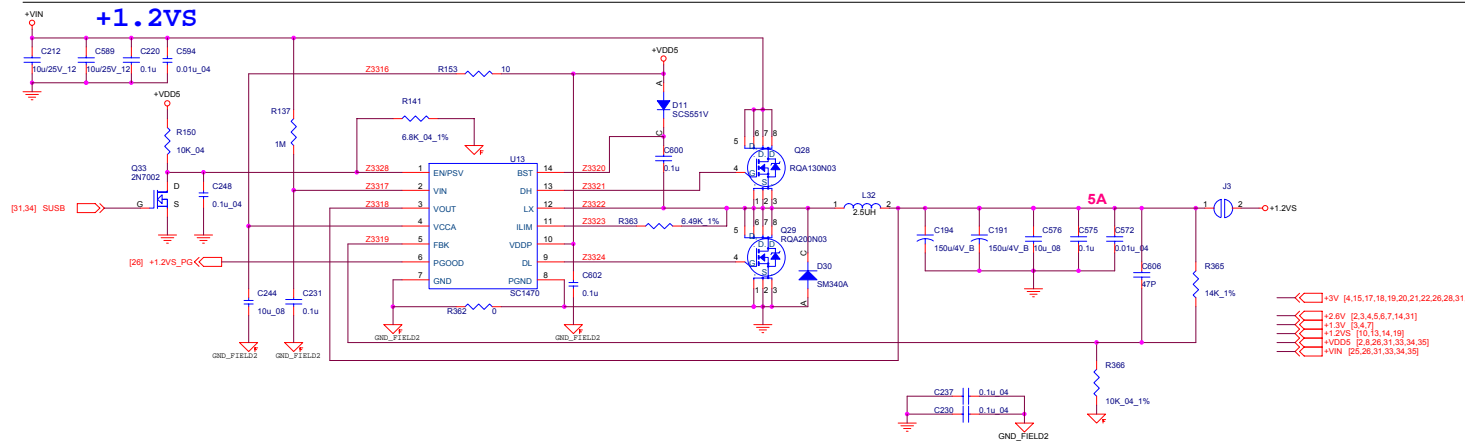
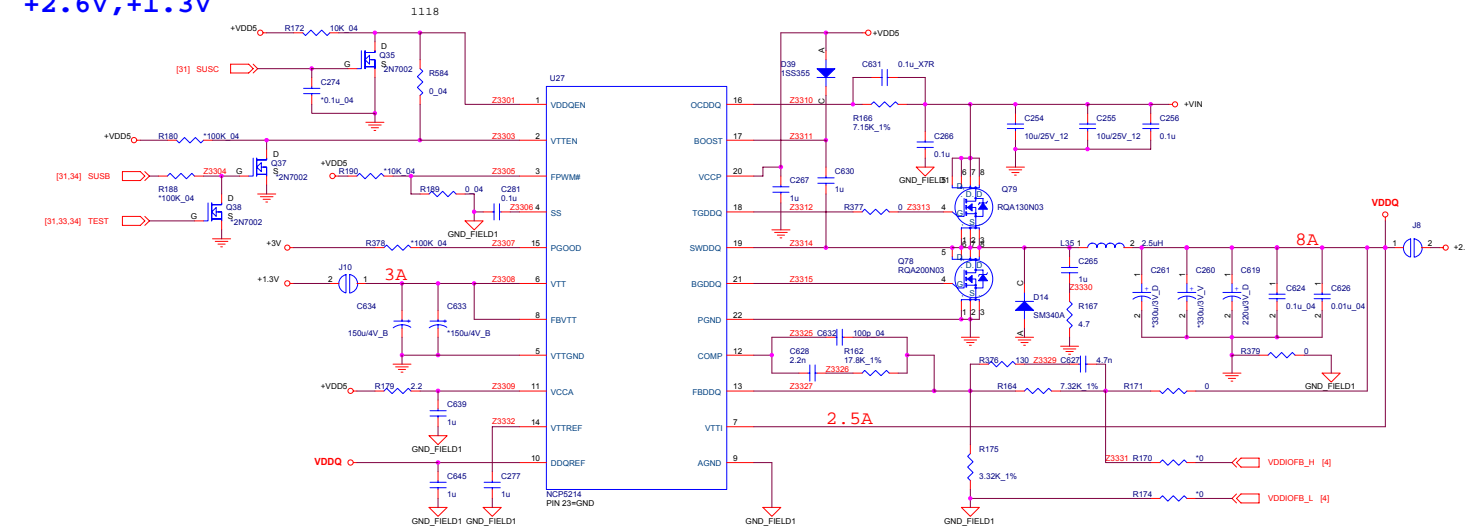


**Sheet 31 of 44**  
**SYSTEM POWER,**  
**BRIDGE BATT**



**+2.6V, +1.3V, +1.2V**

**+2.6V, +1.3V**

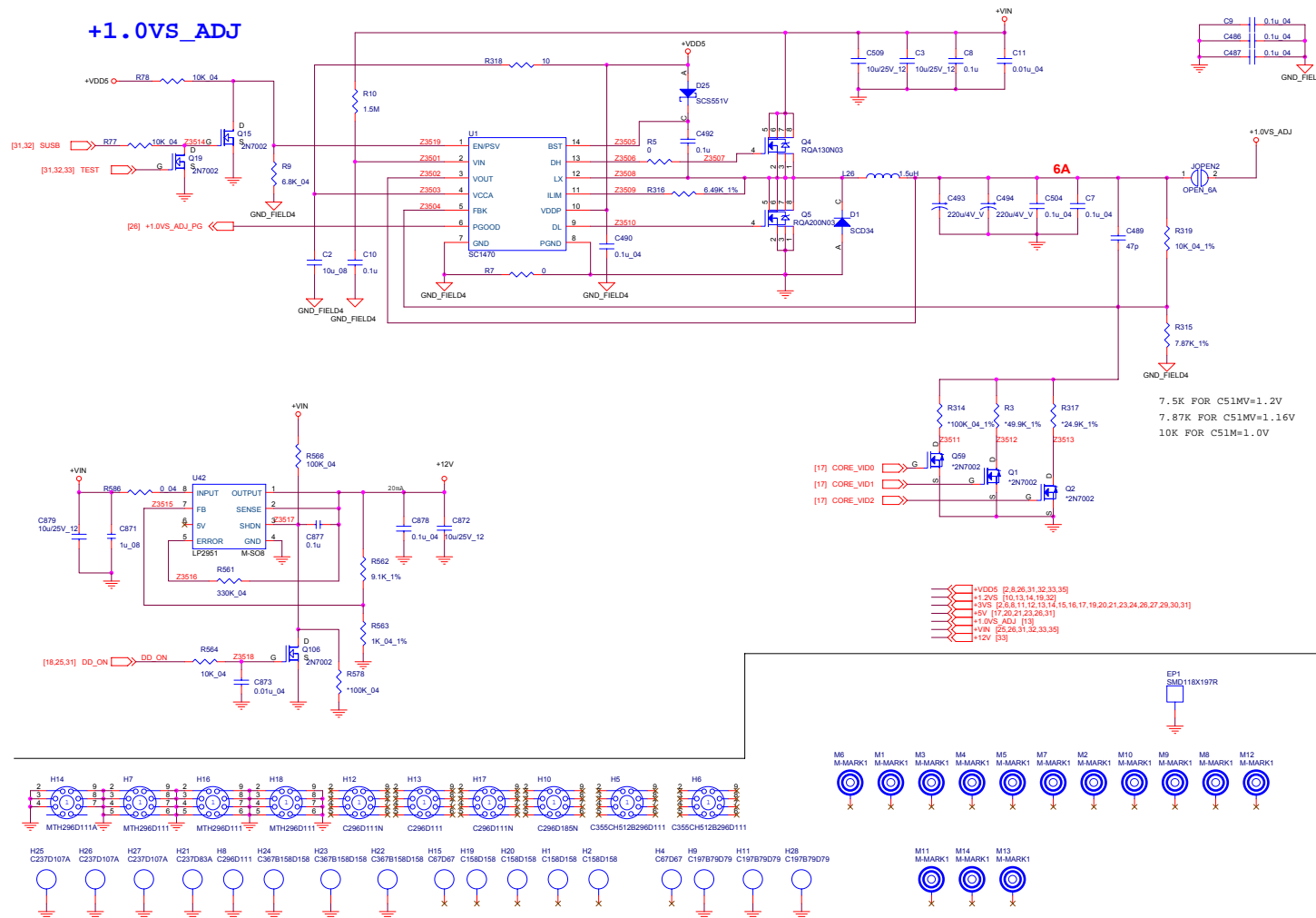


Sheet 32 of 44  
+2.6V, +1.3V, +1.2V





# +1.2VS\_ADJ, +1.0V\_ADJ



Sheet 34 of 44  
+1.2VS\_ADJ,  
+1.0V\_ADJ

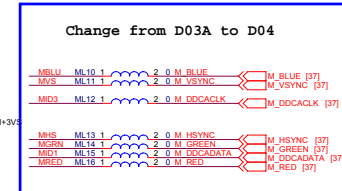
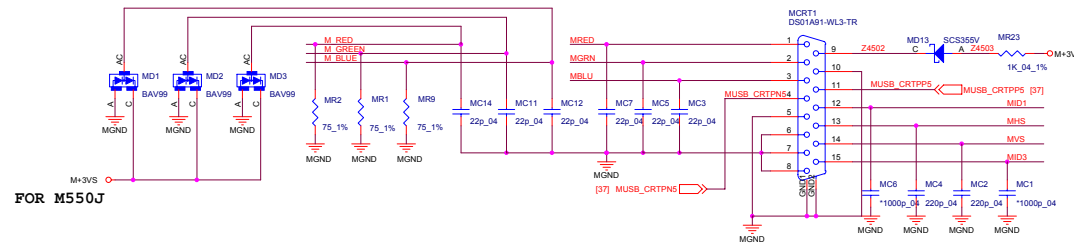
## +VDD3, +VDD5, +VDD12

## B.Schematic Diagrams

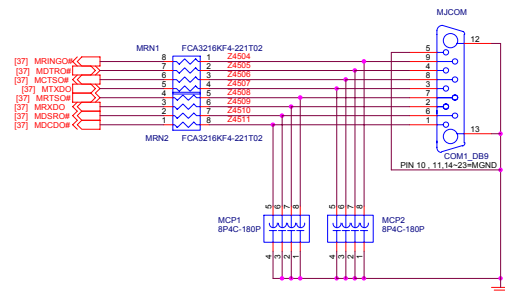
**Sheet 35 of 44**  
**+VDD3, +VDD5,**  
**+VDD12**

# D/D BD (RGB & TV OUT MUXES)

CRT



Sheet 36 of 44  
D/D BD (RGB &  
TV OUT MUXES)



M+3VS [37]

## B.Schematic Diagrams

## B.Schematic Diagrams

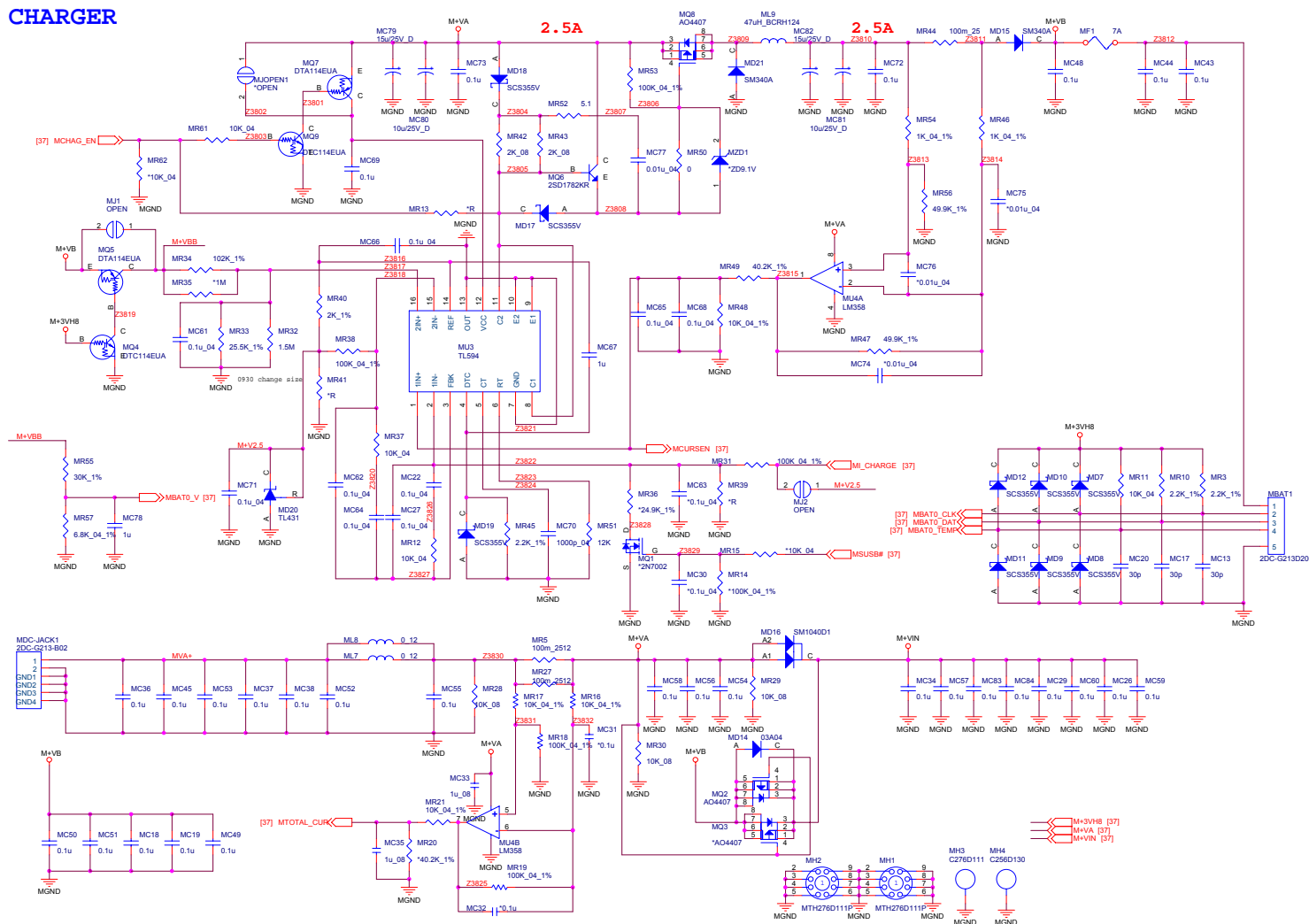


## B.Schematic Diagrams



## D/D BD (CHARGER, DC IN)

## CHARGER



Sheet 38 of 44  
D/D BD (CHARGER,  
DC IN)

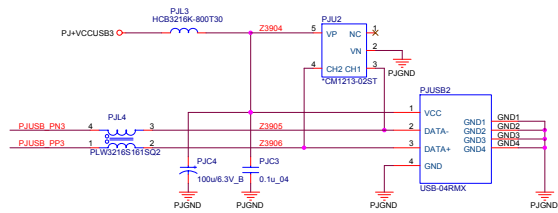
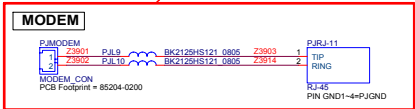


Schematic Diagrams

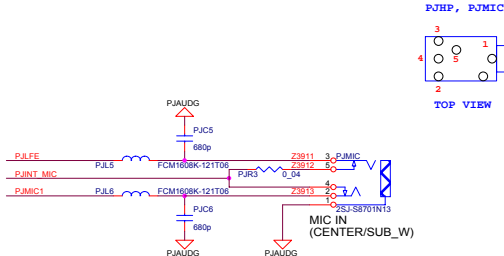
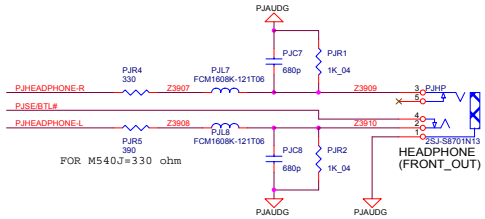
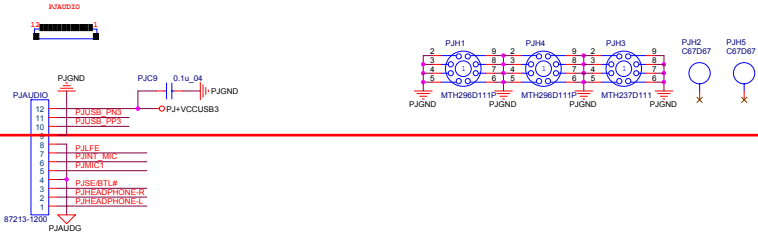
AUDIO BD (PHONE JACK, USB)

DIGITAL PLANE

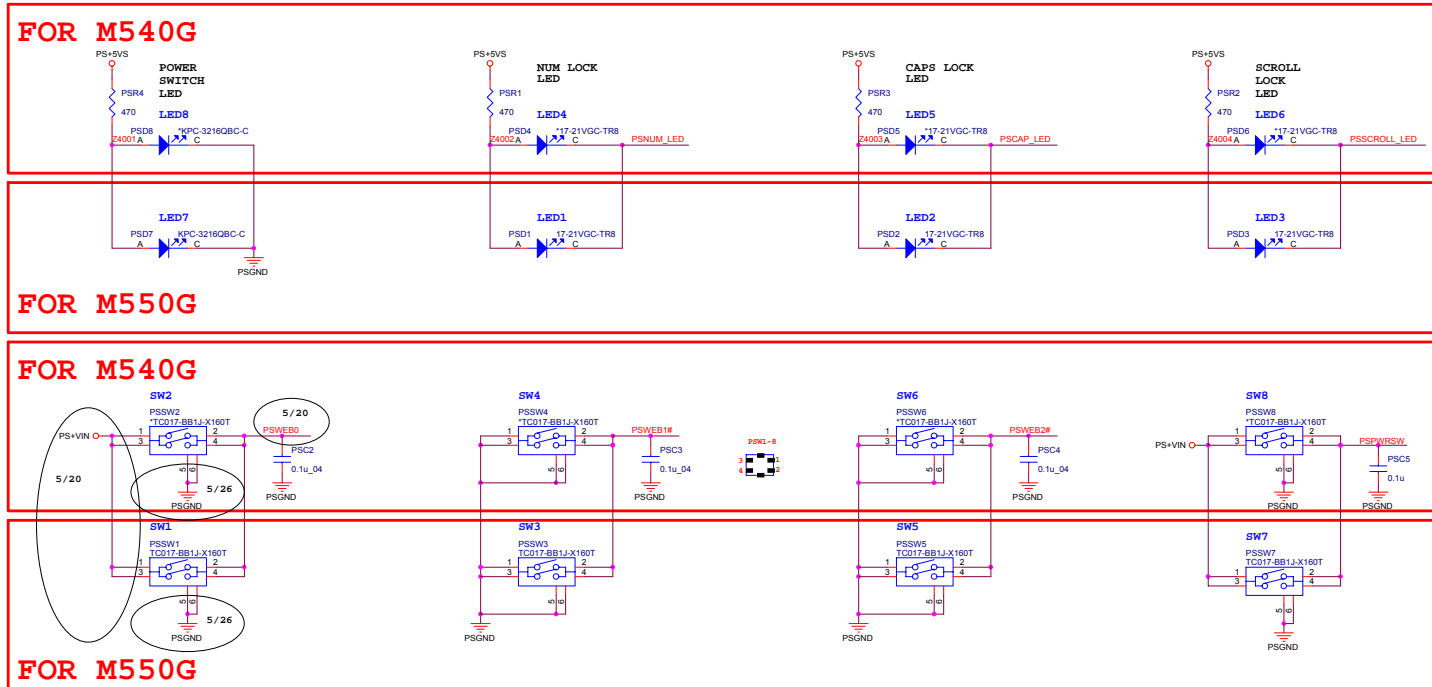
2.5mm



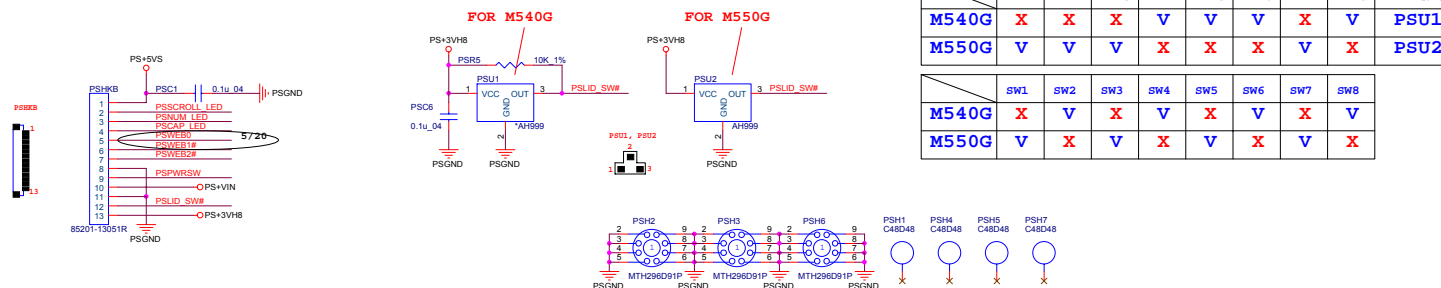
ANALOG PLANE



## HOT KEY BD (HOT KEY, LED)

Sheet 40 of 44  
HOT KEY BD (HOT  
KEY, LED)

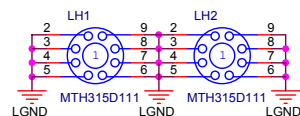
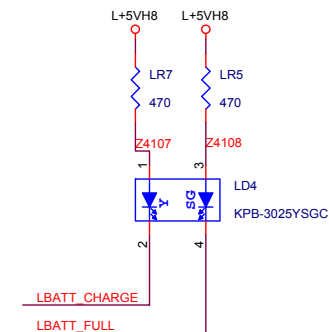
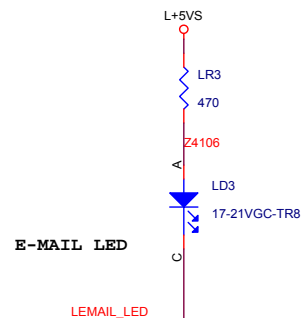
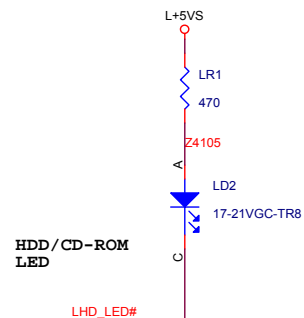
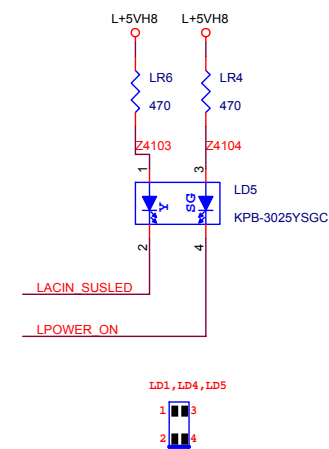
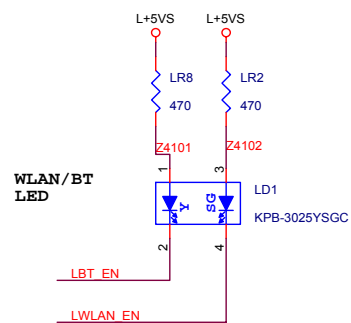
## LID SWITCH IC



**FOR M550J**

Pinout diagram for the M550J 12-pin LLLB connector:

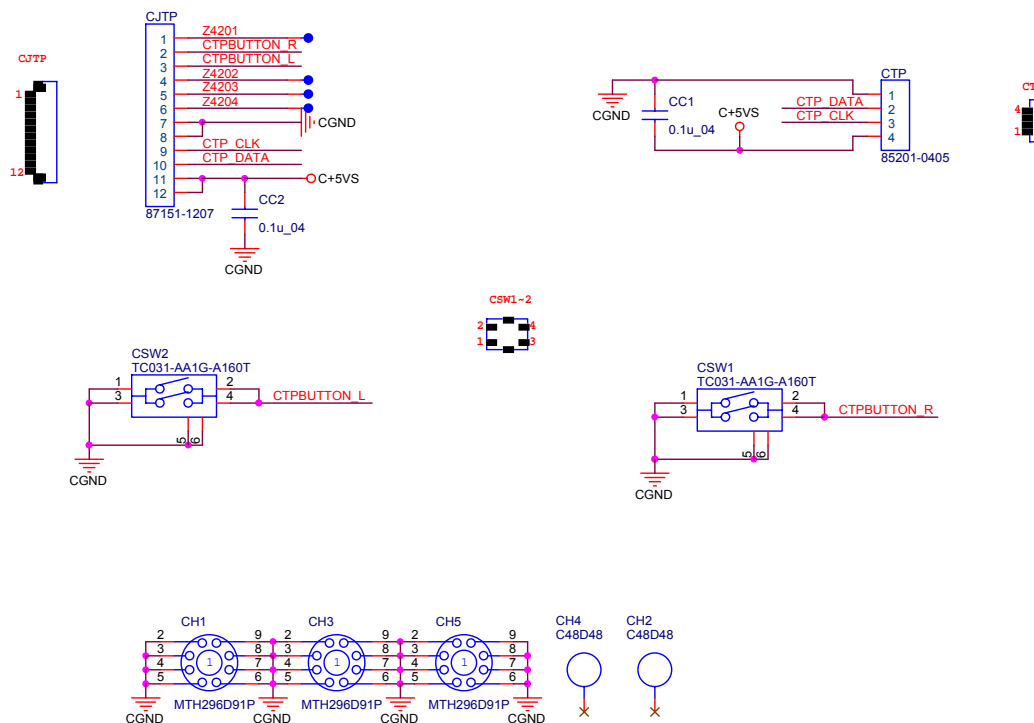
Pin	Signal
1	LWB
2	L+5VH8
3	LPOWER ON
4	LACIN SUSLED
5	LBATT FULL
6	LBATT CHARGE
7	LEMAIL LED
8	LWLAN EN
9	LHD LED#
10	LBT EN
11	L+5VS
12	LGND



# CLICK BOARD

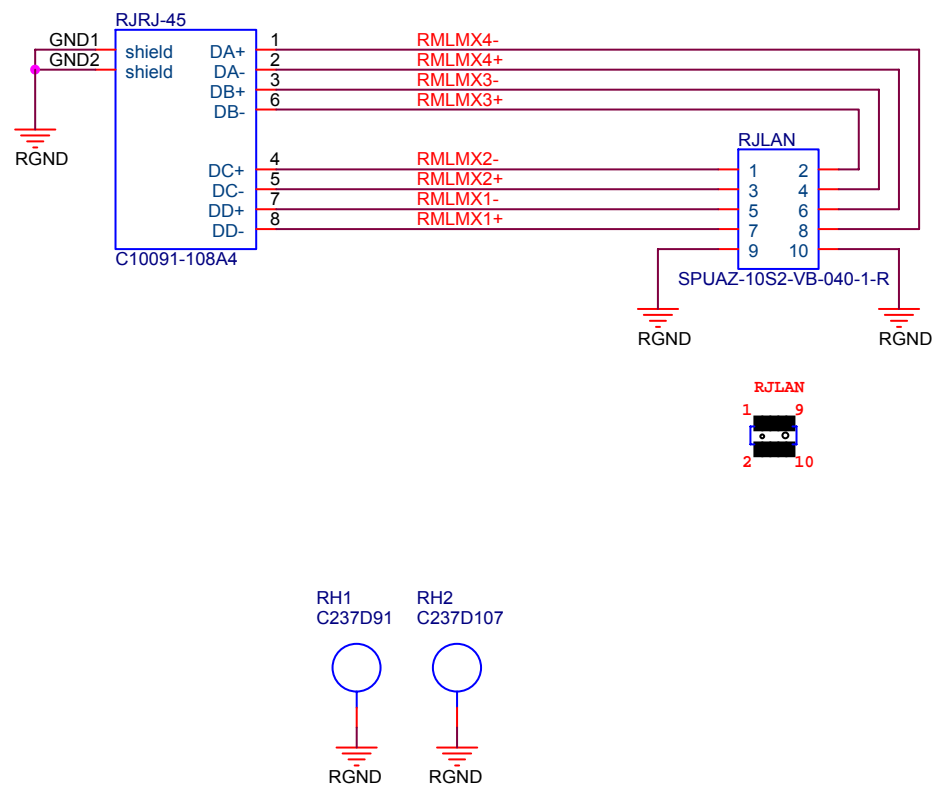
FOR M550J

VENDOR	PART NUMBER
Synaptics	
E-LAN	800409-5102

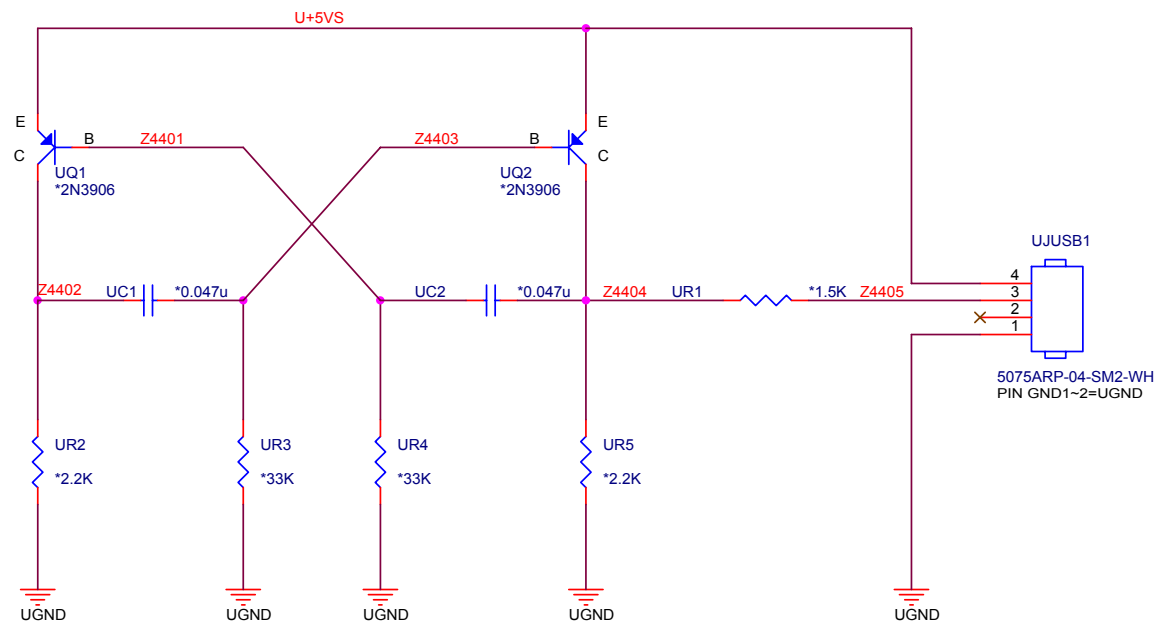


Sheet 42 of 44  
CLICK BOARD

**Sheet 43 of 44**  
**RJ-45 BOARD**



## USB DONGLE BOARD



Sheet 44 of 44  
USB DONGLE  
BOARD



